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2 June 2009
File No. 12758-070

NiSource Corporate Services
300 Frieberg Parkway
Westborough, Massachusetts 01581

Attention: Paul J. Exner, P.E.

Subject: Upland Remedial Action
NIPSCO Former MGP Site
Hammond, Indiana

Dear Mr. Exner,

Haley & Aldrich Design & Construction, Inc. (HADC) is submitting this Construction Completion Report for the Upland Remedial Action at the former MGP Site in Hammond, Indiana. The purpose of this report is to provide an overview of the remedial design and summarize completed construction activities. This report consists of the following information:

- Introduction and Site background consistent with VRP Completion Reporting;
- Remediation methodology;
- Remediation construction work completed;
- Groundwater management system, and;
- Construction related QA/QC documentation.

We appreciate the opportunity to provide environmental construction services on this project. Please do not hesitate to call if you have any questions or comments.

Sincerely yours,
HALEY & ALDRICH DESIGN & CONSTRUCTION, INC.

A handwritten signature in cursive script that reads "David Demas".

David Demas, CHMM
Senior Construction Manager

Enclosures



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CONSTRUCTION COMPLETION REPORT

**UPLAND REMEDIAL ACTION
NIPSCO FORMER MGP SITE
HAMMOND, INDIANA**

Prepared By

**Haley & Aldrich Design & Construction, Inc.
Carmel, Indiana**

Prepared For

**NIPSCO, INC.
801 E. 86th Ave.
MERRILLVILLE, IN 46410**

**File No. 12758-070
May 2009**

EXECUTIVE SUMMARY

This *Construction Completion Report* describes the construction activities completed in 2007 and 2008 for the Upland Remedial Action on the NIPSCO Former MGP Site (the “Site”) in Hammond, Indiana. The purpose of this report is to document how construction activities were performed in accordance with the design specification and, where applicable, detail changes from the design as it relates to the following work elements: 1) Earthwork and Civil Engineering; 2) Barrier Wall Construction; and, 3) Groundwater Pre-Treatment and Discharge System (GWPTDS) Construction. Sections of this report describing a work element where changes from the design occurred include a summary of the original design specification supplemented with descriptions of changes to the design specification.

Although regulatory oversight for activities at the Site is currently being re-evaluated by the Indiana Department of Environmental Management (IDEM), historic activities prior to the Upland Remedial Action were performed under IDEM Voluntary Remediation Program (VRP) guidelines, including enrollment in the VRP with assignment of VRP Project #6980801. For this reason, the *Construction Completion Report* is organized in a manner consistent with VRP guidance for remediation completion reporting.

Construction began at the Site in October 2007 with Site preparation activities, facilities setup, and background air monitoring activities. All construction activities were conducted between October 2007 and December 2008. A temporary demobilization occurred between January 2008 and July 2008.

Prior to the temporary demobilization, pre-trench excavation along the northern structural wall alignment encountered conditions that adversely affected the ability (soil stability) to construct the structural wall using the same means and methods used for the non-structural wall. In response, HADC conducted a Stability Analysis including a Supplemental Field Investigation in April 2008 to further define the subsurface conditions. The purpose of the Stability Analysis was to evaluate strength conditions in the subsurface and adjust construction methods to effectively and safely install the structural portion of the barrier wall when construction activities resumed in July 2008. Details of the Supplemental Field Investigation are provided in Section 2.6.1 of this report.

This *Construction Completion Report* summarizes components of the following construction activities completed between October 2007 and December 2008:

- Remediation preparation, plans, and permits;
- General remediation construction activities;
- Barrier wall construction activities;
- Groundwater Pretreatment and Discharge System (GWPTDS) construction activities, and;
- Construction QA/QC.

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1. INTRODUCTION

1.1 Project Identification

1.1.1 Site Name, Facility ID, and Address

Northern Indiana Public Service Company (NIPSCO)
Former Hammond Manufactured Gas Plant
IDEM VRP #6980801
4912 S. Hohman Avenue
Hammond, IN 46324

1.1.2 Current Owner and Operator

Northern Indiana Public Service Company (NIPSCO)
801 E86th St.
Merrillville, IN 46410

1.1.3 Site Remediation Contacts

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300 Frieberg Parkway
Westborough, Massachusetts 01581
508.836.7256

David Demas, Haley & Aldrich, Inc.
12220 North Meridian Street, Suite 165
Carmel, Indiana 46032
317.569.8880

1.2 Site Background

1.2.1 Summary of Site History

The former NIPSCO Manufactured Gas Plant (MGP), located at the intersection of Wilcox Street and Hohman Avenue in Hammond, Indiana, was constructed in 1900. Manufactured gas was produced using coal carbonization and water gas processes from 1904 through approximately 1930. Records indicate that the Site was then used as a gas transfer station from an East Chicago, Indiana facility until approximately 1950. It was during this period of transfer activity that several aboveground and underground storage tanks were installed for use on the Site. By 1951 the facility was shut down, Site buildings abandoned, and the property converted to a supply yard and storage area for NIPSCO.

1.2.2 Summary of Site Regulatory History

The Former Hammond MGP was entered into the Indiana Department of Environmental Management's (IDEM's) Voluntary Remediation Program (VRP) in 1998 after investigative activities indicated that residuals from former gas

manufacturing operations had impacted the former MGP parcel and adjacent properties. The Site is identified as IDEM VRP #6980801, with the Site and adjacent areas divided into three separate components:

1. Upland (soil and groundwater) Component – NIPSCO property plus a portion of the Norfolk Southern Railroad Road (NSRR) property along the western border of the NIPSCO property;
2. Grand Calumet River (GCR) – Sediments located in the GCR to the north of the NIPSCO property, and;
3. Northern Lobe (soil and groundwater) – portions of property located immediately north of the GCR.

1.2.3 Summary of Site Location and Layout

The Upland component of the Site is located on the south side of the Grand Calumet River in the northwest portion of the business district of the City of Hammond in Lake County, Indiana as shown on Figure 1. The MGP property is bounded by NSRR property to the west, Hohman Avenue to the east, Wilcox Street to the south, and the Grand Calumet River to the north. The former MGP Upland property covers approximately 5.4 acres of land. The Upland component of the former MGP site consist of two parcels of land as shown on Figure 2. The largest parcel, about 5 acres in size is owned by NIPSCO and was the location of the former MGP. The second component is 0.4 acres of land to the West owned by NSRR where impacts associated with the former MGP existed.

Surrounding the Upland Site are mixed-use properties including residential (i.e., an elderly housing complex east of the Site), undeveloped land to the west of the railroad, and a mixture of heavy and light industry to the north and south of the Site. Various historic Sanborn Fire Insurance maps indicate that major structures once existed at the former MGP facility, including an underground storage tank, two 40,000-gallon oil tanks, a 300,000-cubic foot gasometer with governor, a 47,000-cubic foot gasometer with governor, a condenser tank, a purifier tank, a filling station, a condenser, a tar well, and a 105,000-gallon fuel oil tank. Surficial investigations of existing conditions have been performed to identify residual subsurface structures readily apparent at the ground surface. Design Drawing C-101 in SME's 100% Design illustrates the approximate location of structures and potential foundations identified through the historic records search. It is likely other subsurface foundations, abandoned utilities, and large debris are located within and adjacent to the MGP property.

A USGS quad map depicting the location of the Site is provided in Figure 1. Property boundaries, roads, building outlines, surface and subsurface components of the GWPTDS system, Site grading, former tar well, former gas holder, future extraction well, and other as-built structures are depicted in Figure 2. Locations of exploratory borings and test pits installed during the geotechnical and supplemental field investigation are provided in Figure 3.

1.2.4 Previous Reports Applicable to Upland Remediation Construction

- Field Work Plan, HADC (2007-2008);

- Memorandum on Barrier Wall Completion and Northwest Corner Obstruction – Option Comparisons, Upland Remedial Action, HADC (June 2008);
- Memorandum on Stability Analysis, Conclusions, and Construction Methods, Upland Remedial Action, HADC (May 2008);
- Memorandum on Subsurface Conditions Northwest of Proposed Alternative Barrier Wall, Upland Remedial Action, HADC (May 2008);
- Report on Upland Remedial Action, HADC (January 2008);
- Various NiSource Responses to IDEM questions and comments (2007);
- Remediation Work Plan 100% Design, Upland Remedial Action at Former NIPSCO Manufactured Gas Plant Hammond, Indiana, Sevee and Maher Engineers, Inc. (November 2007);
- Addendum #3 to the Voluntary Remediation Program Work Plan, NiSource (August 2007) – revised south barrier wall and groundwater extraction system;
- Addendum #2 to the Voluntary Remediation Program Work Plan, NiSource (April 2007) – response to 2006 IDEM comments, Ninety Percent Basis of Design documents and drawings;
- Addendum to the Voluntary Remediation Program Work Plan, RETEC (February 2006) – summary of site investigations since 2002 (the date of the Sediment RWP), revised risk assessment, revised remediation plan for upland remedy, revised Operations and Maintenance (O&M) Plan, revised Community Relations Plan;
- Letter on NIPSCO’s Revised Project Approach for Remediation, NiSource (July 2005);
- Voluntary Remediation Program Work Plan, Environmental Science & Engineering, Inc. (September 1999);
- Engineering Evaluation/Cost Analysis (EE/CA) Report, Former MGP Site Hammond, Indiana, Environmental Science & Engineering, Inc. (August 1999);
- Pre-Design Field Investigation, QST Environmental (August 1998), and;
- Phase I Site Investigation, RETEC (July 1997).

2. REMEDIATION METHODOLOGY

2.1 Constituents of Interest (COI)

Constituents of interest detected in groundwater during the April 1997 (Phase I Site Investigation) and May 1998 (Pre-Design Field Investigation) investigations included, but were not limited to, VOCs (benzene, ethylbenzene, isopropyl benzene, toluene, and total xylenes), PAHs, and Cyanide. Constituents detected in soil during the April 1997 and May 1998 Site investigations included, but were not limited to, VOCs (benzene, ethylbenzene, isopropyl benzene, p-isopropyl toluene, toluene, and total xylenes), PAHs, Total Metals, and Cyanide.

2.2 Upland Remedial Action Objectives

Exposure pathways that needed to be addressed by the remedial action for the Upland portion of the Site included human exposure to surface soil, human exposure to subsurface soil, and human and environmental exposure to groundwater. Therefore, three Remedial Action Objectives were established for the Upland Site:

1. Prevent potential human exposure to surface soils;
2. Prevent potential exposure to subsurface soils, and;
3. Prevent environmental exposure to groundwater from Site.

2.3 Evaluation and Selection of Remedial Alternatives

Environmental Science & Engineering, Inc. (ESE) prepared an EE/CA report in August 1999 and a VRP Work Plan (September 1999) in which several remedial alternatives were discussed and recommended, including soil excavation and removal, physical containment, and groundwater management.

Soil excavation was not considered cost effective as it would involve extensive efforts to remove, dewater, and replace three acres of soil to a depth of approximately 10 feet. (ESE, August 1999). This alternative would also have likely involved construction of a coffer dam to prevent water from the Grand Calumet River from entering the excavation.

Physical containment technologies considered included slurry and sheet pile walls. ESE recommended the use of sheet piling to construct the barrier wall because of its relatively low permeability, strength, and compatibility with future dredging of river sediments. The sheet pile wall was proposed to be placed on three sides of the Upland Site; along the river, and along the west and east property lines.

Several approaches to groundwater management were considered including pump and treat, funnel and gate systems, and passive controls (vegetative soil cover, phytoremediation-based hydraulic control, and drains). ESE recommended a low permeability cap and passive hydraulic controls in conjunction with the barrier wall because of its cost effectiveness and availability. ESE prepared a preliminary groundwater model in 2000 to evaluate some of the groundwater management alternatives being considered. However, at that time only limited site characterization and water level data had been obtained at the Upland Site so calibration of the model was difficult.

NIPSCO completed additional investigations of the Upland Site in 2002 and 2004. These investigations were conducted to address IDEM comments on the 1999 Voluntary Remediation Program Work Plan (RWP), to obtain site and groundwater flow data for the groundwater model, and to obtain geotechnical data for the proposed barrier wall design. The RWPs for the Upland Site and the Grand Calumet River Sediment (2002 Sediment RWP) were re-evaluated after the completion of the 2004 investigation, to address IDEM concerns, to incorporate the 2002 and 2004 subsurface information, and to develop a comprehensive remedial action for both the Upland Site and River consistent with other planned remedial actions in the River.

Based on the re-evaluation of the Upland RWP, in its 1 July 2005 letter to IDEM, NIPSCO proposed to modify the proposed barrier wall to fully enclose the MGP source material encountered in the Upland component of the site using a soil-mix barrier wall that also encompassed portions of the railroad property to the west of the NIPSCO property. A pumping system was proposed to control groundwater levels within the barrier wall and enclosed source materials, and a treatment system was proposed to treat the extracted groundwater before discharge. The letter stated that groundwater

modeling indicated that the proposed pump and treat system would effectively address infiltration across the enclosed source material area. The modifications to the Upland RWP would also allow the Sediment RWP to more closely fit the remedial actions proposed elsewhere along the river. In August 2005, IDEM indicated that the proposed modifications were acceptable provided that NIPSCO address technical concerns expressed by IDEM.

These concerns were addressed in the February 2006 Addendum (#1) to the Voluntary Remediation Program Work Plan prepared by RETEC. This addendum included a revised groundwater model report by MACTEC Engineering and Consulting (formerly ESE and hereafter referred to as "MACTEC"). The revised model demonstrated that the proposed pump and treat system would meet the remediation goal of preventing migration of contaminated groundwater enclosed by the barrier wall from reaching the river. The February 2006 addendum also included the Thirty Percent Basis of Design for the Upland Remedial Action prepared by Sevee & Maher Engineers (SME). The Thirty Percent design drawings showed a structural soil-mix barrier wall along the Grand Calumet River designed to support future dredging of impacted sediments and construction of a cap. The remainder of the Upland perimeter was contained using a non-structural soil-mix barrier wall.

2.4 Confirmation Sampling

2.4.1 Preliminary Geotechnical Investigation (December 2006)

A preliminary geotechnical investigation was performed at the Site between 12 and 13 December 2006 by Haley & Aldrich, Inc. The purpose was to confirm subsurface conditions along the proposed barrier wall alignment provided in the Addendum (#1) to the RWP. Twelve direct-push probe holes were advanced along the original structural (three) and non-structural (nine) barrier wall alignments. Boring logs are included in Appendix A.

This information, responses to IDEM comments on the February 2006 Addendum to the RWP, and preliminary Ninety Percent Basis of Design documents and drawings were presented to IDEM in the April 2007 Addendum #2. IDEM provided additional comments but generally approved Addendum #2

2.4.2 Subsurface Investigation (July 2007)

An additional subsurface investigation in response to IDEM comments was conducted at the Site between 16 and 20 July 2007 by Haley & Aldrich, Inc. Twenty-nine (29) direct-push probe holes were advanced south of and along the original proposed non-structural barrier wall, which transected the Site in an east-west direction. Source Material was observed in 14 probe holes at depths less than 10 feet and in an additional 4 holes at depths greater than 10 feet. This investigation resulted in a realignment of the non-structural barrier wall prior to completion of the 100% Design. The revised alignment extended the wall towards the southerly property line and southeast corner of the Site to capture and enclose subsurface impacts revealed during the investigation. Boring logs are included in Appendix A.

The latest subsurface information and a drawing that showed the revised barrier wall alignment and extraction system that reflected the findings of the July 2007 investigation were presented to IDEM in the August 2007 Addendum #3. Addendum #3 also included the groundwater model revised again by MACTEC based on the known hydrogeological conditions at the Site to evaluate potential options to control groundwater as a component of the remedial action. Simulation results reported in August 2007 indicated that the selected remedy (proposed at time of simulation) was capable of preventing groundwater migration from the contaminated source area to the river provided that the design include additional and reoriented passive groundwater collection trenches.

2.5 Final Remediation Work Plan – Upland Remedial Action

The final RWP for the Upland Remedial Action was prepared for NIPSCO by SME and Haley & Aldrich in November 2007. The RWP was submitted to IDEM by NIPSCO on 5 December 2007.

The November 2007 RWP included the Ninety Percent Basis of Design (Revision 3), and Design Drawings, Specifications and Attachments. As discussed above, the July 2007 investigation encountered source material along the proposed non-structural barrier wall alignment provided in previous versions of the RWP. In the final RWP the non-structural barrier wall was moved towards the southern property line so that the known source material would be fully enclosed by the barrier wall.

The final groundwater model report prepared by MACTEC evaluated potential options to control groundwater as a component of the remedial action. Simulation results indicated that the selected remedy in the final RWP was capable of preventing groundwater migration from the contaminated source area to river with the additional extraction trenches included in the final design. The Final Groundwater Model report was included as Appendix E of the final RWP.

The Upland Remedial Action described in the final RWP prevents potential human exposure to surface soils, prevents potential exposure to subsurface soils, and prevents environmental exposure to groundwater at the Site in accordance with the project objectives. In addition, the RWP provides for hydraulic isolation of the sediments in the Grand Calumet River from the Site by containing and treating groundwater inside the barrier wall. In addition, the Upland Remedial Action will support the anticipated remedial actions in the Grand Calumet River. The barrier wall, located between the Upland Site and the river, will provide temporary structural support for sediment removal if such action is undertaken. Final implementation of the Sediment RWP will be designed and implemented to accommodate the “as constructed” conditions of this barrier wall and hydraulic conditions at the time of construction of the Sediment Remedial Action.

2.6 Construction-Related Sampling

2.6.1 Supplemental Field Investigation (April 2008)

Pre-trench excavation along the northern structural wall alignment encountered conditions that adversely affected the ability to construct the structural wall using the

same means and methods used for the non-structural wall. In response, HADC conducted a Stability Analysis including a Supplemental Field Investigation in April 2008 to further define the subsurface conditions. A Supplemental Field Investigation was conducted between 14 and 24 April 2008 to collect subsurface geotechnical information to effectively and safely construct the remaining structural soil-mix barrier wall along the northern boundary of the Site.

The field program consisted of the following:

- Nine (9) test borings were continuously sampled with a standard penetration test (SPT) sampler to the top of the sand or clay stratum (approximately 14 to 18 feet below ground surface). These borings were located on cross sections approximately at Stations 3+20, 4+97, and 6+55 along the structural barrier wall, which coincide with the approximate locations of the cross sections used for the slope stability model. Borings were performed by RD-n-P Drilling, Inc. of Crown Point, Indiana, using a track-mounted drill rig. Boring logs HA-1 through HA-9 are include in Appendix A.
- A well couplet was installed at the southern-most boring at each of the cross sections defined above (southwest of the structural wall alignment). Three well couplets were installed each with a 1-inch diameter, 10-foot long pre-packed screen with annular grout seal. Well screens were set in the lower sand layer and in the upper fill soils. Installation reports are included in Appendix A.
- A separate boring was advanced directly adjacent to each boring to collect in-situ shear strength data at the top and bottom (where possible) of the outwash/marsh deposit unit. Shear strength was measured using an Acker Precision Shear Vane. See Appendix A for a summary of the in-situ shear strength data collected in the borings.
- Five (5) shallow test pits were excavated in the existing Site fill, and nuclear density tests were performed on in-place soils above the groundwater. The nuclear density tests measured the dry unit weight and the moisture content of the soils. Test pits were excavated by RW Collins Company of Chicago, Illinois, using a Caterpillar 307. See Appendix A for test pit logs.
- Fourteen (14) hand shear-vane tests were conducted between the temporary construction fence and edge of water in the river muck at depths of one and two feet using a State of Maine DOT Standard Shear Vane. See Appendix A for a summary of the in-situ shear strength data.

Figure 3 shows the locations of the above explorations as surveyed on 30 April 2008. The Supplemental Investigation revealed the following:

- Shear-vane testing in the borings nearest to the river provided soil strength properties consistent with previous values for the organic deposits (organic deposits) that were used in the initial slope stability assessments. However, shear-vane testing in the southern-most borings revealed shear strengths approximately twice those collected closer to the river. Consequently, the slope stability model was refined to take into consideration this increased shear strength.
- The nuclear density testing performed in the test pits indicated weights that are slightly lower than had been previously assumed in the initial slope stability

model. Applying the lower average unit weight to the revised slope stability model reduced driving forces with little loss of shear resistant forces.

- The initial model assumed a continuous sand layer beneath the organic soils; however, a sand layer was observed in only three of the nine borings and the slope stability model was modified to incorporate this non-continuous feature.

The data gathered during the Supplemental Investigation allowed refinement of the slope stability models used to assess the feasibility of means and methods to construct the structural barrier wall. The initial model indicated that construction of the structural barrier wall was not possible along the original alignment without using engineering controls.

After extensive analysis of different construction approaches for the structural wall, a construction method was selected that included installing lightweight fill to construct the work platform, reducing equipment loads by setting excavation equipment on timber crane mats, and moving the revised wall alignment upland (south) 10 feet from the original design alignment. This adjustment to the wall alignment allowed the work platform to be situated over the more consolidated organic soils defined during this investigation resulting in allowable factors of safety to construct the wall.

3. REMEDIATION CONSTRUCTION

3.1 Contractor Selection

A mandatory bid site walk was conducted on 2 July 2007 and attended by several potential subcontractors. The agenda included introductions to NIPSCO, HADC, SME; and summaries of the project, Site layout, Site constraints, bid process, and expectations. Bids were received and a comparison was performed to determine the lowest cost qualified subcontractors. The following is a list of subcontractors selected for the various remediation activities:

- Haley & Aldrich Inc. - General/Oversight;
- R.W. Collins Company - Earthwork and Civil Engineering;
- Envirocon, Inc. - Barrier Wall Construction;
- Focus Contracting, Inc. - Groundwater Pre-treatment and Discharge System;
- Sevee & Maher Engineers, Inc. - Engineering Oversight (Barrier Wall);
- SCS Environmental Contracting - Geoprobe and Piezometer Installation;
- Lawrence Construction Co. - GWPTDS Building Construction;
- Homer Tree Service - Landscaping, Clearing & Grubbing;
- Stark & Son Trenching, Inc. - Sewer Work;
- W-T Land Surveying Inc. - Surveying, and;
- Fence Sales Inc. - Security Fence.

3.2 Required Permits

Permits and work plans were submitted to several local, state, and federal agencies and included:

- Erosion and Sediment Control Plan (ESCP) submitted to Lake County Soil and Water Conservation District (SWCD);
- Rule 5 – Notice of Intent for National Pollutant Discharge Elimination System (NPDES) General Permit for Storm Water Discharges Associated with Construction Activities from the Indiana Department of Natural Resources (IDNR) Division of Water;
- Construction Permit from City of Hammond submitted by construction contractor;
- Permit for Construction in a Floodway from the IDNR Division of Water;
- Construction Permit for Air Emissions from City of Hammond Department of Environmental Management (HDEM);
- Section 401 Water Quality Certification from IDEM;
- Section 404 Permit for Discharge of Dredge and Fill material from U.S. Army Corps of Engineers, Detroit, Michigan, District Office;
- Permit for Industrial Waste Water Discharge from the Sanitary Sewer District of Hammond for long-term discharges of treated groundwater;
- Permit for Temporary Wastewater Discharge from the Sanitary Sewer District of Hammond for temporary discharge of construction fluids such as dewatering, decontamination water, storm water, etc.;
- Hammond Redevelopment Commission Plan Submission Approval submitted to Hammond Redevelopment Commission Department of Planning and Development;
- Request for Work in Public Right-of-Way from Hammond City Hall Board of Public Works and Safety;
- Improvement Location Permit for Zoning Approval from Hammond City Hall Zoning Department for groundwater treatment system building and two temporary construction trailers;
- Plumbing Permit from City of Hammond submitted by construction contractor;
- Sewer tap, curb cuts, and other construction related permits submitted by construction contractor;
- Electrical Permit from City of Hammond submitted by construction contractor;
- Road Opening Permit from City of Hammond submitted by construction contractor;
- Building Permit from City of Hammond Department of Building Inspection, and;
- Occupancy Permit from City of Hammond.

3.3 Site Preparation and Controls

3.3.1 Support Facilities

Prior to beginning field activities, a 60-foot by 8-foot job trailer was placed at the Site on the concrete pad at the southeast corner of the property. The trailer was located on an existing concrete pad, secured and anchored, and temporarily permits obtained from the City of Hammond. Electrical and internet services were provided to the trailer for use by HADC and affiliated subcontractors. Other facilities included portable restrooms with wash stations and a cooler for potable drinking water.

3.3.2 Survey

Prior to construction, utilities within the limits of work and offsite around the perimeter of the property were surveyed and marked. This included obtaining rim, invert, and bottom elevations of the manhole located on Hohman Avenue that was designed to accept the force main from the groundwater pretreatment and discharge system. Pre-existing Site data such as monitoring well locations, concrete pad locations, former structures, and subsurface explorations were obtained from previous surveys and reports.

3.3.3 Erosion and Sediment Control

An Erosion and Sediment Control Plan (ESCP) was prepared by SME. A copy of the ESCP was submitted to Lake County SWCD and is provided in Appendix E of the Field Work Plan (HADC, November 2007-2008). The ESCP was located in the field office for reference as needed. The erosion control measures included, but were not limited to, siltation fencing, stone check dams, temporary seeding, erosion control matting, oil absorbent booms, and the use of hay mulch.

3.3.4 Well Abandonment

Over the course of several site investigations, 14 monitoring wells (MW-1 through MW-6, QST-MW-7, QST-MW-8, QST-MW-9A, QST-MW-9B, QST-MW-10A, QST-MW-10B, MW-11, and MW-12) were installed on-site. Groundwater quality monitoring is not proposed as part of the RWP because all the known MGP source materials are enclosed inside the barrier wall. Water levels will be measured using piezometers installed on both sides of the barrier wall to confirm that flow gradients are towards the area interior of the barrier walls and passive collection trenches. These measurements will verify that contaminants are not migrating away from the barrier walls and into the river.

Since the wells will no longer be used for groundwater monitoring, and to avoid safety hazards and the potential for spills into the subsurface via the well bores, all known remaining wells were abandoned prior to construction. RW Collins decommissioned 12 monitoring wells by pulling the PVC riser and screen and filling the well opening with coarse bentonite. QST-MW-7 was abandoned on 29 October 2007. MW-6, QST-MW-8, QST-MW-9A, and QST-MW-9B were abandoned on 1 November 2007. Wells abandoned on 8 November 2007 include MW-1, MW-2, MW-3, MW-4, MW-5, MW-11, and MW-12. Decommission reports were filed with IDNR Division of Water and are included in Appendix B. The remaining two (2) wells could not be located (QST-MW-10A and QST-MW-10B), however, historical documentation shows that they would both be within the barrier wall and confined by the clay.

3.3.5 Clearing and Grubbing

Prior to implementation of remedial activities, grubbing and partial clearing of the Site was performed in accordance with the 100% Design Specifications (SME, November 2007) and without material change to the design. This included removal all of trees, brush, and debris within the property boundary. Trees were cut down and transported without disturbing the soil to a staging area for chipping. After the trees were

removed, roots, brush, and shrubs were grubbed and transported offsite for disposal if they could not be chipped for reuse. In an effort to prevent erosion, grubbing activities proceeded in a manner to minimize over-exposure of the surface to precipitation. HADC personnel observed and documented clearing and grubbing activities in daily field reports (DFRs). The DFRs were kept at the Site during construction activities for future reference as needed and are provided in this report as Appendix C.

3.3.6 Dust Control

During each work shift, dry surface areas of fill soil or crushed stone were wetted as necessary to reduce visible airborne dust using a construction water truck. During periods of warm/dry weather and/or high winds, dedicated ongoing watering of the entire Site was performed to minimize airborne emissions. Visible airborne dust emissions were controlled during excavation, loading, and backfilling activities by applying water with a high pressure water hose or by using odor suppressant foam prior to handling.

3.3.7 Odor Control

Odors resulting from impacted materials were minimized by limiting handling and reducing exposure, to the extent possible, during daily activities. During excavation, loading, or handling of coal tar impacted soils or debris; odor suppressant foam was applied multiple times on 15 different days to reduce or minimize VOC emissions. A self-contained Rusmar Pneumatic Foaming Unit with a 400-gallon capacity holding tank was staged on-site for deployment to control odors and VOC emissions during remediation activities. The foaming unit had the capability to cover 4,000 to 7,000 square feet of surface area per tank and was able to provide approximately 16 minutes of continuous foaming before refilling. An onsite Ford F-250 (or equivalent) truck equipped with a trailer hitch moved the foaming unit around the Site as needed.

3.3.8 Traffic Control

Heavy truck or vehicle traffic in and out of the Site was limited to protect workers and reduce congestion. Daily vehicle parking for workers and visitors was provided outside the work Site in an effort to reduce the potential for accidents. Delivery and other vehicles were stopped upon Site entry, directed to the appropriate delivery location, and routed along access roads while on the Site. Precautions were taken to ensure directions were followed including the use of concrete jersey barriers, cones, signs, and a flagman to direct traffic flow during heavy traffic tasks. Vehicles that continued into the main work zones beyond the support area (office trailer) exited through the decontamination station prior to leaving the Site so that potentially impacted soil, materials, or debris could be removed from tires and undercarriages.

3.4 Protection of Health and Environment

3.4.1 Health and Safety Plans

Prior to initiating field activities, each subcontractor provided HADC with Site-specific Health and Safety Plans (HASPs) identifying safety procedures and controls related to their specialized services. HADC also developed a HASP to identify health and safety

risks and hazards associated with the construction tasks, controls to prevent or reduce identified risks and hazards, and requirements pertaining to Site-specific monitoring, documenting, and reporting. All HASPs were included in Appendices A and B of the Field Work Plan (HADC, 2007-2008).

3.4.2 Incident – Near Miss

On 12 November 2007, a CAT 345 Excavator owned and operated by RW Collins severed a buried and unmarked natural gas line located on the eastern/central portion of the property. Approximately three hours of lost work time resulted, with no injuries. Public utilities were notified (NIPSCO) and responded by capping the gas line at the eastern property line.

3.4.3 Daily Field Reports

HADC conducted daily safety tailgate meetings to address health and safety variations as they related to changing work activities. The tailgate meetings were documented in Daily Field Reports (DFRs) that described daily events, personnel on the Site, weather conditions, and a photographic log. DFRs are provided as Appendix C.

3.4.4 Erosion and Sediment Control Plan

In accordance with the Erosion and Sediment Control Plan (ESCP), HADC periodically inspected the silt fencing and other erosion controls at the Site. ESCP inspection logs are provided in Appendix D.

3.4.5 Final Air Monitoring Report

The Final Air Monitoring Report (Appendix E) describes the air monitoring program that was implemented at the Site, beginning on 24 October 2007, to monitor potential offsite emissions and collect real-time data to determine if adjustments to construction procedures were necessary to address construction-related air emissions. The Final Air Monitoring Report includes the following information:

- Purpose and Goals;
- Constituents of Interest & Site Specific Action Levels;
- Hourly fence line field measurements;
- Final Laboratory Reports;
- Constituent-Specific Analysis, and;
- Hazard and Risk Indices.

This program was conducted in accordance with the Air Monitoring Plan developed by SME as provided in Appendix D of the Field Work Plan (HADC, 2007-2008) and consisted of the following:

1. Real Time Data Summary:

Direct-read instruments collected hourly data at each monitoring station. These instruments were calibrated daily and maintained in accordance with the manufacturer's specifications; the calibration logs are included in the Final Air Monitoring Report. The following is a list of parameters analyzed with direct-read instruments:

- Total VOCs - measured with Ion Science Procheck + photo-ionization detector (PID) calibrated with 100 parts per million (ppm) isobutylene gas and carbon zero filters;
- Benzene - measured with a Dräger chip measurement system (CMS) when Total VOC concentrations exceeded 0.25 parts per million by volume (ppmv), and;
- Dust - measured with a Personal Data Ram (Model Series PDR) or Airborne Particulates Monitor.

For dust, the Air Monitoring Plan identified a real-time/fence-line action level of 15 mg/m³. For total VOCs such as benzene, the plan identified a real-time/fence-line action level of 0.25 ppmv. If respective action levels were approached or exceeded, the plan stipulated that remedial activities would be halted and reassessed and alternate methods implemented to reduce offsite emissions. **No action levels were approached or exceeded throughout the duration of construction activities.**

2. Laboratory Result Summary

- VOCs - sampled for approximately eight hours using absorptive media and GilAir Personal Air Samplers flow pumps with a minimum flow rate of 1.0 liter/minute, analyzed by Modified NIOSH 1501;
- PAHs - sampled for approximately eight hours using absorptive media and GilAir Personal Air Samplers flow pumps with a minimum flow rate of 2.0 liters/minute, analyzed by NIOSH 5515, and;
- Dust - sampled for approximately eight hours using a PVC filter using GilAir Constant flow pumps with a minimum flow rate of 1.0 liter/minute, analyzed for Particulate matter by Modified NIOSH 0500.

The results of the COI prioritized samples are provided in the Final Air Monitoring Plan and summarized below:

- Benzene concentrations ranged from below detection limit of 0.001 mg/m³ to 0.010 mg/m³, and the AAC is 0.090 mg/m³.
- Toluene concentrations ranged from below detection limit of 0.001 mg/m³ to 0.004 mg/m³, and the AAC is 0.040 mg/m³.
- Ethylbenzene concentrations ranged from below detection limits of 0.001 mg/m³ to 0.004 mg/m³, and the AAC is 1.00 mg/m³.
- Xylenes (total) concentrations range from below detection limit of 0.001 mg/m³ to 0.010 mg/m³, and the AAC is 0.30 mg/m³.
- Naphthalene concentrations ranged from below detection limit of 0.002 mg/m³ to 0.009 mg/m³, and the AAC is 0.010 mg/m³.
- B(a)P concentrations did not exceed the laboratory detection limit which ranged between 0.002 mg/m³ and 0.005 mg/m³, and the AAC is 0.00032 mg/m³.

3.5 Barrier Wall Construction

3.5.1 Bench Scale Testing

Prior to mobilization, bench scale testing was performed on soil and water samples collected on 19 October 2007 for the soil-mix design study. The mix-design study accomplished the following:

- Verified the compatibility of bentonite slurry as a liquid shoring material
- Generated data used to evaluate the soil-cement-bentonite (SCB) backfill composition
- Established performance requirements and long-term compatibility with the Site groundwater.

3.5.2 Trench Excavation and Slurry Mix

All trench work was continuously performed with a hydraulic excavator and was vertically excavated with a maximum deviation in the vertical plane of 3%. Excavation was carried to the full depth (approximately 20-25 feet which included at least a 3-foot key into the underlying clay) and width in accordance with the 100% Design Specifications and without material change to the design.

The trench was excavated in a series of panels or “cuts”. Each cut was approximately 20 feet to 30 feet long based on the trench depth and excavator reach. The trench was excavated from the working platform surface down to bottom elevation. Once a cut was complete, the excavator made a final pass to clean the trench bottom and then moved back to begin the next cut.

While the trench was being excavated, a bentonite-water slurry was pumped into the trench to keep the sidewalls from collapsing. The bentonite slurry was introduced into the trench at the time excavation began and maintained in the trench at a level above the groundwater table (no more than 2 feet below the surface of the work area).

The bentonite-slurry was mixed in a jet shear mixer and placed in a holding tank suitable to completely disperse the bentonite particles. Mixing of water and bentonite continued until bentonite particles were fully hydrated, producing a stable, colloidal suspension of slurry that appeared visually homogeneous. Acceptable slurry met quality control standards of viscosity, density, and filtrate loss (Section 3.8.1) consistent with API RP 13B, “Standard Procedure for Testing Drilling Fluids”. Density and viscosity were maintained at a minimum of 64 pcf and 40 seconds, respectively.

The slurry was periodically mixed or re-circulated in a slurry pond constructed near the center of the Site to keep it homogeneous and if the slurry became heavy with sand, it was removed from the trench using the excavator bucket and replaced with fresh slurry. When trench excavation activities were complete, slurry was pumped from the pond for use in the backfill mix to the extent possible and the remaining mud in the pond was solidified by mixing with nearby soils and concrete debris.

3.5.3 Trench Backfill

The backfill was composed of soil from the trench excavation mixed with cement grout, bentonite (when necessary), and bentonite slurry to obtain a workable slump (between 3

and 6 inches). The mixing was performed directly adjacent to and inside the slurry trench alignment on the prepared working platform.

Backfill materials were stirred and kneaded repeatedly with the excavator bucket after the addition of the required amount of cement grout and bentonite slurry to achieve the correct slump range. Dry bentonite was added to wet soil mixes when necessary to achieve design criteria. Backfill was placed by an excavator at the head of the trench to displace the slurry. The top of the completed trench was inspected for surface depressions after it had cured for one day. Free water was removed and the trench filled with backfill in accordance with the 100% Design Specifications and without material change to the design. This process was repeated for each 20 to 30 foot panel.

3.5.4 Barrier Wall Installation

The barrier wall consists of structural and non-structural wall types. The structural wall is the portion of the slurry wall installed along the Grand Calumet River (Figure 4) that required backfill composition containing a greater proportion of cement increasing strength and stability to accommodate future sediment remediation adjacent to this area.

Construction of the structural wall and connections at the intersections of the non-structural wall occurred in July 2008. The structural and non-structural barrier wall as-builts and locations of vibrating wire piezometer pairs and conduit are depicted in Figure 4.

3.5.4.1 Non-Structural Wall

Non-structural wall installation began on the eastern side of the Site at station 11+40. Work continued south-southwest past the GWPTDS building in a clockwise direction. Given weather conditions and construction challenges, construction advanced at a rate of approximately 80 linear feet per day. The non-structural slurry wall technique utilized slurry to shore the trench sidewalls, as described in Section 3.4.2. In accordance with 100% Design Specifications and without material change to the design, 98% of the non-structural wall was completed from October to December 2007 between Stations 11+40 and 1+60. The remaining 2% was completed and tied into the structural wall portion in July 2008, modified as described-below in Section 3.5.4.2.

3.5.4.2 Structural Wall

During pre-trenching activities to remove obstructions along the structural wall alignment, approximately 200 cubic yards of tires and other large debris were removed. It appeared that several layers of tires were stacked and placed in low lying areas adjacent to the river and covered with soil to create a wide, lightweight retaining wall which increased useable flat space at the Site. These tires were placed in a manner that functioned as a “mat” to distribute loads across the very soft underlying organic soils. The actual strength of the organic soils at some locations along the alignment was found to be lower than anticipated based on the prior site investigation efforts. Site remediation work imposed additional loads on the organic soils from both the placement of normal weight fill to create a level work platform, and loading from

construction equipment. As a result of the additional loading, a limited bearing capacity failure occurred consisting of localized settlement mid-point along the structural wall alignment (approximately between Stations S4+00 and S6+00). The construction equipment was removed from this area and portions of the work platform were removed to reduce the loads. Given these conditions it was decided that the NW corner of the non-structural wall and the entire structural wall portion would be completed after a Stability Analysis and Supplemental Field Investigation could be completed (April 2008) for the structural wall alignment.

A desktop Stability Analysis was completed in March 2008 which included a series of parametric analyses with input data and assumptions based upon limited geotechnical information from the Site. The parametric study yielded safety factors too restrictive (very low) to achieve structural wall construction consistent with means and methods intended by the design. In addition, the Stability Analysis identified that data collected from a Supplemental Field Investigation could reduce uncertainty and provide for less conservative safety factors. Subsequently, data gathered during the Supplemental Field Investigation (Section 2.4.3) indicated construction of the structural wall consistent with the design intent was possible with slight modifications to the design and modification of construction means and methods. These modifications included an offset from the original structural wall alignment, supplemental engineering controls, and adjustments to the construction methods to meet the safety factors. After extensive analysis of different construction approaches, a method was selected which involved installing lightweight fill to construct a work platform, reducing equipment loads by setting excavation equipment on timber crane mats, and revising the wall alignment 10 feet south of the original design alignment (Figure 4).

Work Platform

The work platform was approximately 30 feet wide and consisted of lightweight fill along the northern Site boundary between Stations SR7+00 and SR3+00 in accordance with revised design specifications. The fill consisted of slag material that met Indiana Department of Transportation (INDOT) Certified Aggregate Producer Program (CAPP) requirements for gradation and source. Fill was placed in 8 inch lifts until the appropriate elevation was achieved along the structural wall alignment to allow slurry wall construction to proceed with the same means and methods as described in Section 3.4.2. A geotextile fabric was placed beneath the fill layer to improve tensile strength and cohesion with the natural soils in the area as well as prevent migration of slurry into the slag.

Prior to construction, soils beneath the work platform were monitored for settlement. In addition, real-time horizontal and vertical monitoring of the work platform was performed during construction of the structural wall. Monitoring included survey of the work platform for movement, monitoring of piezometric head, and visual observations for signs of slope movement. Monitoring points consisting of 2-foot long, #4 rebar driven into the ground were established at 20-foot intervals between Stations SR2+25 and SR7+56. Monitoring points were established at three locations at each interval: ground

surface near the security fence, work platform top of slope, and existing top of slope.

Work Platform Monitoring

Primary monitoring points were surveyed after installation to establish baseline data. Prior to the start of excavation each day, surveying was performed on points located adjacent to portions of the wall constructed the previous work day and for portions of the wall anticipated to be constructed during the current day. During wall excavation and backfilling, monitoring was conducted hourly at intervals located within 50 feet of the trenching excavator for monitoring points located near the security fence and at the work platform top of slope. Action criteria were as follows:

Primary Action Criteria: For movement in either direction over 0.04 foot (~0.5 in.):

- An intermediate monitoring interval would be installed 10 feet away on both sides of the monitoring point at which movement was observed to provide redundant monitoring points and verify the change was from slope movement and not some other reason such as survey error or a disturbed survey hub, etc.
- Monitoring frequency would increase two times per hour within 50 feet of the trenching excavator and the HADC Site Supervisor notified of the data and actions.
- If adjacent survey points had not moved more than 0.04 foot, baseline monitoring frequency could be resumed.
- If it appeared that slope movement had occurred, monitoring would continue as noted above on monitoring points at which movement was measured until the trench was backfilled. Once backfilled, the area would be monitored once per hour until wall construction was completed that day.

Secondary Action Criteria: For movement in either direction over 0.08 feet (1.0 in.):

- Work would be stopped immediately and all equipment moved a minimum of 100 feet from the wall alignment.
- The HADC Site Supervisor would be notified of the data and the work or monitoring procedures re-evaluated/revised prior to resuming work. Further actions would be based on field conditions but could include increased use of crane mats, increased monitoring frequency/procedures, use of the “stitching” approach, or other alternatives.

On 30 July 2007, IDEM visited the Site to observe structural wall installation along the revised alignment. During the visit, the IDEM Project Manager expressed concerns about the revised alignment; specifically the NW corner excluded potentially impacted material. In response to IDEM’s concern, an updated parametric study was performed between Stations 1+00 to 2+30 to assess realignment to the north and maximize the

area contained inside the barrier wall. Based on the results of this study and factoring in construction observations made during the July 2008 activities, the wall alignment was moved 15 feet north at Station 1+70 using that point to create an arc from Station 2+35 to Station 1+00. This adjustment resulted in approximately 1,000 additional square feet of area being contained within the barrier wall. Also in response to IDEM's concerns, the intersection at the structural and non-structural wall was widened by approximately 8 feet to further stabilize and capture material within the barrier wall system. Successful installation of the structural wall was completed in July 2008 in accordance with the revised construction methods, consistent with the design intent, and responsive to IDEM concerns.

3.6 GWPTDS Construction

3.6.1 Soil Stabilization

Soil stabilization was performed beneath the planned GWPTDS building using a conventional excavator type in-situ soil-mix methodology. The building stabilization area has an approximate dimension of 32 feet by 48 feet. This area was mixed in a series of six 16-foot by 16-foot pits following a "checkerboard" pattern. The six pits were mixed over three days to allow for adequate curing to prevent slump. The first two pits included an interior test pit to determine the depth to the sand layer. Each pit was excavated approximately 18 feet deep to satisfy the mixing process in accordance with the 100% Design Specifications and without material change to the design.

3.6.2 GWPTDS Building Construction

After completing soil stabilization and surveying the building location, the footprint of the GWPTDS building was excavated to grade prior to pouring concrete footings and the floor sump in place. The sub-slab piping was set in position and stubbed above the finished grade of the GWPTDS building floor per the 100% Design Specifications and without material change to the design.

The building footings were constructed in accordance with Section 1 of Drawing S-201 in the 100% Design Specifications. After the footings were formed and poured, perforated under-drain piping was placed on the interior and exterior of the footings. The area was backfilled and compacted with native material and structural backfill to the designed elevation.

Prior to pouring the concrete pad, electrical conduit was positioned beneath the floor slab. The floor slab was constructed in accordance with Section 3 on Drawing S-200 of the 100% Design Specifications and without material change to the design. When the slab cured to a satisfactory compressive strength, the masonry block walls were constructed in accordance with the 100% Design Specifications with modifications to accommodate penetrations and openings slightly larger than designed for vents in the walls. Top plates and additional framing work was installed to finish the walls. Prefabricated roof trusses were set in place per Drawing S-300 of the 100% Design Specifications. Roof trusses were blocked and sheathed per Section 2 of Drawing S-300. The building structure was completed with siding on the gable ends, soffit/fascia, metal roof, overhead and man-door installation, drywall placement, and painting the

completed building. Details regarding groundwater management and treatment are provided in Section 4.

3.7 Site Restoration and Security

Site restoration activities were performed in accordance with the 100% Design Specifications with some modifications to accommodate changes in the barrier wall alignment, reconfigured spillways, and the soil berm along the north side of the Site. Restoration activities different from the 100% Design Specification included installation of two 15-inch diameter culverts with associated valves, fittings, inlet, and outlet protection. This is a material change from the 100% Design Specifications which provided for 3 culverts. In addition, the emergency spillway at the northwest corner of the Site was reconfigured to match the curvature of the barrier wall. A narrow retention area that discharges through a central culvert was positioned between Trench #2 and the revised structural wall alignment. Restoration activities performed without material change to the design included installation of grass and riprap-lined drainage ditches, gravel access roads, parking areas, and soil cover areas. In soil cover areas, 6 inches of topsoil were placed over disturbed areas and slip-seeded.

Site security measures included the construction of a permanent chain link fence and gates in accordance with the 100% Design Specification with two modifications including 1) adjustment of the southern alignment to accommodate buried footings; and, 2) replacement of a section of fence along Hohman Avenue that was not included in the design. Other security measures installed in accordance with the 100% Design Specifications and without material change to the design included exterior and indoor lighting. Exterior lighting includes light poles and lamps located on/around the GWPTDS building. Interior lighting in the GWPTDS building includes exit signs, lamps, controls, and emergency fixtures.

All construction equipment and temporary facilities have been removed from the Site; only silt fencing remains which will be removed after vegetative cover has adequately established.

3.8 Waste Removal and Management

Throughout construction activities, efforts were employed to reuse materials to the extent possible or manage for offsite disposal in accordance with the 100% Design Specifications. Offsite disposal was managed by EQ – The Environmental Quality Company per contractual arrangements direct with NiSource until August 2008. HADC managed and coordinated all remaining offsite disposal between 19 August 2008 and 25 August 2008 with Newton County Landfill located in Brooke, Illinois. Newton County Landfill was owned by Allied Waste in 2008 and has since been purchased by Republic Industries in 2009. This effort consisted of transporting and disposing 130 loads totaling 2987.92 tons of non-hazardous soil and debris. A detailed log of this transported waste is provided as Appendix F.

3.8.1 Tar Well Remediation

Prior to removal of the tar well, soil and debris were pre-characterized and profiled for disposal. One composite soil sample and one source composite sample was collected

during test pit activities conducted for the purpose of delineating the tar well area on 31 October 2007 and with additional test pit activities, the location of the tar well was confirmed on 20 November 2007 by RW Collins. The tar well was left undisturbed the remainder of 2007 so that nearby construction activities could be finished.

Samples collected during test pitting efforts were shipped in a cooler to TestAmerica, Inc. in North Canton, Ohio. The soil composite sample was analyzed for BTEX, TCLP VOCs, PAHs, TCLP SVOCs, PCBs, TCLP Pesticides, TCLP Herbicides, TCLP Metals, and specific solid waste disposal parameters required by the disposal facility. The source sample was analyzed for TCLP benzene. Laboratory results are included in Appendix G.

The tar well area was uncovered using traditional excavation methods on 15 August 2008 by RW Collins. Fill soils that did not have visual staining were removed and stockpiled on sheet plastic in the exclusion zone. Upon exposing soil and debris with visual coal tar impacts, the affected area was mixed with wood chips and dry overburden to ensure the solid waste was in an acceptable condition for landfill disposal. The bulked soils were then directly loaded into semi-dump trucks for offsite disposal. When strong coal tar odors were observed during the remediation activities, odor suppressant foam was applied to the affected area to control airborne emissions. Documentation of floor elevations was performed using conventional laser level methods performed by the on-site hazmat laborers. Dewatering of the tar well was performed on 20 August 2008. Final cleanout of the tar well was on 27 August 2008. The work zone was monitored for benzene during the removal activities. Air monitoring results did not exceed action levels for benzene. On 18 September 2008, holes were punctured through the bottom of the tar well structure and a nearby steel vessel emptied during the tar well removal activities to release captured water. Each vessel was filled with concrete debris removed during the construction activities.

3.8.2 UST Removal

During excavation of a passive collection trench, a vessel was revealed that was assumed to be an underground storage tank (UST) located at the approximate center of the Site (Figure 2). This tank was not previously registered and its use or contents are unknown. Historic information does not provide direct reference to a UST; however, Sanborn records describe a “filling station” near the center of the Site.

The tank consisted of steel in poor condition with an estimated capacity of 1,000 gallons. Because Site groundwater is approximately 4 feet below the surface, the tank was full of water and installed with concrete anchors to prevent it from floating. In accordance with IDEM UST Guidelines, a 30-day Waiver of Closure Notification (without suspected release) was requested and granted, a copy of this notification is provided in Appendix H. On 22 September 2008, the tank was removed, drained of water, and demolished for scrap. Closure reporting will be finalized after review of this Construction Completion Report by IDEM.

3.9 QA/QC

The QA/QC program included slurry and backfill testing procedures to verify depth, excavated materials, slurry wall alignment, and materials proportions. A detailed

Slurry Wall QC Plan was prepared by Envirocon. A copy of the Slurry Wall Work Plan and QC Plan is provided in Appendix F of the Field Work Plan (HADC, 2007-2008).

3.9.1 Slurry and Soil-Cement-Bentonite (SCB) Backfill Monitoring

The QA/QC program included slurry and backfill testing procedures to verify depth, excavated materials, slurry wall alignment, and materials proportions. Test results, abnormalities, excavation and backfill profiles, and sampling procedures were recorded on daily quality control reports. Water and bentonite slurry used for trench excavation were tested for multiple parameters including pH, hardness, viscosity, density, and filtrate loss. Fresh slurry samples were collected from the inlet or mixer.

SCB backfill was tested for density, slump, 200 wet sieve, permeability, and unconfined compressive strength. This information was tabulated and reported daily to SME during barrier wall and stabilization activities. All slurry samples and backfill samples passed the required specifications during installation. A Slurry Wall QC Plan was prepared by Envirocon and is summarized below.

MIX MATERIALS AND LAB TESTING		
Parameter	Rate of Testing	Acceptable Range
Bentonite Certification	1 per lot	Meet API standards
Mix Water – pH and hardness	Once prior to start-up	6 to 8 for pH and < 500 ppm hardness

BENTONITE SLURRY – FRESH		
Parameter	Rate of Testing	Acceptable Range
Viscosity (Marsh Funnel API Code RP 13B)	At least twice per day at point of introduction to the trench	At least 40 seconds
Density (Mud Balance API Code RP 13B)	At least twice per day at point of introduction to the trench	≥ 64 pcf
Filtrate Loss (API RP Code 13B)	Once every other day at point of introduction to the trench	< 25 cc (ml)

BENTONITE SLURRY (IN-TRENCH)		
Vary testing depth throughout the sampling.		
Parameter	Rate of Testing	Acceptable Range
Density (Mud Balance API Code RP 13B)	At least twice per shift	At least 15 lb/ft ³ less than the density of the S-C-B backfill material, and no more than 90 pcf
Viscosity (Marsh Funnel API Code RP 13B)	At least twice per shift	> 40 sec

SOIL-CEMENT-BENTONITE BACKFILL MATERIAL		
Parameter	Rate of Testing	Acceptable Range
Cement Grout Density by mud balance	Twice per day when backfilling	Per mix design range
SCB Slump (ASTM C143)	Twice per day when backfilling	3 to 6 inches
SCB Density (mud balance)	Twice per day when backfilling	15 pcf greater than the slurry
SCB 200 Wet Sieve	Once per day when backfilling	For record
SCB Permeability (ASTM D 5084)	One sample set per 400 cy (~ 10 sets for the project)	Range of 3×10^{-6} cm/s or less based on 3' wall thickness and the original project specifications
SCB Unconfined Compressive Strength Testing – Take a min. of 6 3"x6" cylinders per set for UCS and perms	One sample set per 400 cy (~ 10 sets for the project)	30 psi for non-structural and 70 psi for structural wall sections at 28 days

The results for the December 2007 soil slurry testing are summarized below in Table 3.9.1-1. Results from December are from the non-structural wall and results from July are from the structural wall.

Table 3.9.1 - 1					
Date	7 day UCS results (psi)			Permeability (cm/sec)	Comment
	1	2	Average		
3-Dec	102	100	101	1.2×10^{-8}	
4-Dec	184	149	166.5	3.4×10^{-8}	
5-Dec	294	291	292.5		
7-Dec	-	-	-	3.9×10^{-7}	
8-Dec	260	222	241		9 day UCS result
10-Dec	171	249	210		
11-Dec	194	195	194.5	2.1×10^{-8}	
12-Dec	167	173	170		
13-Dec	158	156	157	3.4×10^{-7}	
14-Dec	161	156	158.5		
15-Dec	145	140	142.5		9 day UCS result
17-Dec	119	115	117	1.3×10^{-7}	
18-Dec	140	130	135		8 day UCS result
19-Dec	173	156	164.5		
20-Dec	144	170	157		

The results for the July 2008 soil slurry testing are summarized below in Table 3.9.1-2:

Table 3.9.1 - 2					
Date	7 day UCS results (psi)			Permeability (cm/sec)	Comment
	1	2	Average		
23-July	130	156	143		Sta 7+26
24-July	105	85	95		Sta 7+16
25-July	201	202	201.5	3.3×10^{-8}	Sta 6+10 – 10 day UCS results
28-July	76/71	95	80.7		Sta 4+50 – 3 tests at 9 days
29-July	177	187	182	7.8×10^{-8}	Sta 4+50
30-July	61/130	105	98.6	8.1×10^{-7}	Sta 3+20 – 3 tests
31-July	100	93	96.5		Sta 2+50 – 28 day results
1-Aug	99	86	92.5	3.6×10^{-7}	Sta 1+60

NOTES:

1. UCS – Unconfined compressive strength
2. Frequency of testing for permeability is based on amount completed (not required daily)
3. Permeability results were consistent with clay confining layer permeability historically reported as 1×10^{-8} and exceeded the permeability reported for fill, organic soils, and sand above the clay layer.
4. **All performance criteria for strength and permeability were met or exceeded.**

3.9.2 Monitoring and Maintaining Slurry Level in Trenches

The level of slurry in the trench was monitored and controlled during and at the conclusion of the work day so that the slurry level stayed within two feet of the ground surface. At the end of each work day, the slurry level was raised to near the surface by pumping fresh slurry and/or by placing SCB backfill. Generally, the slurry level decreased only a few inches over night, if at all.

4. SITE GROUNDWATER MANAGEMENT SYSTEM

4.1 Collection and Monitoring

Site wide groundwater management is accomplished by passive collection of groundwater through a series of trenches that convey water to a central sump where the collected water is pumped to the groundwater treatment facility. The effectiveness of the groundwater management system is monitored through a series of vibrating wire piezometers located at several points around the perimeter of the soil-mix barrier wall. Prior to remediation, groundwater flowed across the site from south to north towards the Grand Calumet River (GCR). In addition, a slight upward gradient of groundwater flow was observed towards the GCR. The barrier wall provides hydraulic and physical isolation of MGP residual source material and impacted groundwater within the Upland Site. Inside the barrier wall, precipitation that infiltrates into the cover soils and enters the underlying groundwater is passively collected via a series of six interconnected trenches and conveyed to a central sump. Each of these six trenches is comprised of a dual-pipe system designed to allow the stone bedding within the trenches to be flushed and cleaned when necessary to maintain efficiency. In addition, two alternate, single-pipe trenches are used to collect source material. These alternate trenches typically remain closed and are opened as necessary to discharge source material collected within the central sump. The central sump is fitted with a dual-pump system to convey collected fluids to the groundwater pretreatment and disposal system (GWPTDS).

Seven pairs of vibrating wire-type piezometers (one piezometer inside the barrier wall and one outside the barrier wall) monitor and record the piezometric levels on each side of the barrier wall (Figure 4). Data is recorded and converted to water elevations for each location at specific dates, and is used to generate plots of head differential across the barrier wall. The data is reviewed during periodic operation and maintenance of the system and manual adjustments are made to groundwater withdrawal, as necessary, to maintain system performance. At the time of this submittal, minimal data has been accumulated to establish head differential trends; however, the early data indicates water levels are consistent with expectations (i.e., inward gradients to the contained area).

The O&M Plan for the Upland Remedial Action will be submitted to IDEM by 30 April 2010. The O&M Plan will include an evaluation of system performance of the Site Groundwater Management System by comparing recorded piezometric levels to the performance criteria. These comparisons will occur during the first year of operation and subsequent periods thereafter. The results of the piezometer pair monitoring will be submitted to IDEM as required by RWP and the O&M Plan.

4.2 Pre-Treatment and Discharge System (GWPTDS)

The GWPTDS is designed to handle groundwater generated by the Site Groundwater Management System (groundwater from inside the barrier wall). Treated water from the GWPTDS is discharged to the Hammond Sanitary District in accordance with applicable permit requirements (Section 3.2).

4.2.1 Major Components

The GWPTDS is housed within a pre-treatment building that is 24 feet by 40 feet in area and consists of the following major components:

Influent Management;

- Spare force mains for future pumps from the central sump;
- Bypass piping and flow isolation valves for each of the flow streams around the oil/water separator treatment unit, and;
- Bypass piping and flow isolation valves around the bag filters and GAC contactors.

Oil/water separator;

- Petro screen coalescer;
- Trickling filter;
- Floating-liquid drum storage;
- Sinking-liquid drum storage, and
- Secondary containment for the drum storage.

Water Treatment;

- 1,000 Gallon Tank and pump to feed the bag filter units;
- Bag filter units, one set as lead and one set as lag with motor operated valves;
- Chemical-feed metering pump, day tank storage, and secondary containment pallet for sodium hypochlorite to oxidize dissolved iron prior to the bag filters and oil/water separator;
- Skid-mounted granulated activated carbon (GAC) vessels (two in series), and;
- Water circulating pumps.

Operational Systems;

- Multiple Programmable Logic Controls (PLC) integrated with a computer controlled Supervisory Control and Data Acquisition (SCADA) system
- Building floor sump with locally sloped floor equipped with a sump pump discharging to the backwash waste-holding tank for equipment wash down;
- Sewer discharge meter;
- Backwash supply meter (City water), and;
- Related piping, valves, and fittings.

4.2.2 GWPTDS Process Overview

The GWPTDS is designed to provide operational flexibility and components receive flows from the following pumped sources:

- Central Sump, and;
- Recycle Water (for carbon media conditioning).

Each of these flow streams is piped to a manifold which can be valved to bypass any of the flow streams around the oil/water separator process. Both the oil/water separator bypass and outlet pipes are plumbed to the filter feed storage tank. The filter feed pump takes water from the filter feed storage tank and discharges to a piping manifold which can be valved to direct flow to the lead bank of bag filters (controlled in automatic mode with 2-inch motor-operated ball valves) or to a bag filter/GAC contactor bypass (controlled by a 2-inch manually operated ball valve). The outlet of the lead bag filters is piped to the inlet of the GAC contactor system. The piping manifold for the GAC vessels can be manually valved so that either of the 1,000-pound vessels can be alternated between “scrub” vessel and “polish” vessel in series. This pipe configuration allows both carbon vessels to be manually backwashed with the backwash water collected into a storage tank and pumped into filter feed storage tank for treatment. The outlet from the GAC vessels is metered and discharged to the Hammond Sanitary District sanitary sewer system.

4.2.3 Process and Component Description

4.2.3.1 (SCADA) System

The SCADA system provides for remote access to the treatment equipment operation via a dialup phone line connection to the SCADA computer. Instrumentation and controls for the SCADA system include 11 separate control loops integrated with 4 Allen-Bradley PLC modules and control panels located in the control room of the GWPTDS building. This system is capable of starting and stopping pumps and key components of the GWPTDS system, controlling discharge flow, reading and trending piezometer levels, initiating safety shutdowns, and indicating alarms locally and remotely.

4.2.3.2 Oil/Water Separator

The oil/water separator (OWS) is a single wall, rectangular tank with sludge hopper and trickle filter provided by Highland Tank, Inc. - model: R-HTC-G 300.

Water pumped from the central sump into the GWPTDS building is routed through the intake manifold system and into the OWS. The tank is 7-feet long, 2-feet wide, and 3-feet high, with 3-inch inlet and outlet piping. As the initial treatment unit in the GWPTDS, the OWS tank separates source material from the wastewater entering the treatment building. Wastewater flows into the settling chamber through a velocity head diffusion baffle. Solids fall out of suspension in this chamber and settle into the sludge hopper for collection during periodic maintenance activities. The wastewater passes through the

settling chamber and flows over a series of weirs and coalescing filter media in sequential chambers. As water collects in last chamber of the OWS tank, the level raises enough to allow gravity flow into a vertical 1,000-gallon filter feed storage tank. The OWS has no moving parts but two conductivity sensors detect dense oils and low-density oils as they are collected. These sensors send an alarm signal to the OWS control panel which relays the alarm to the main control panel, which signals for an operator to remove the oil manually to 55-gallon storage drums.

4.2.3.3 Bag Filters

The bag filter system is comprised of six multi-cavity housings containing six bags each. The filters are model no. 6 BFS-2-SB-3-316 by Shelco Filters, Inc. The filter housings are 316 Stainless Steel construction tested to withstand a working pressure of 75 psi. The tanks are designed in accordance with current ASME Code. The filter housings have 6-inch flanged inlet and outlet connections and a threaded 1/2-inch air vent and bottom drain.

The bag filters are divided into two sets of three bag filters each. Accumulated water in the filter feed storage tank is pumped via the filter feed pump to one set or “bank” of the bag filters. Each bag filter contains bags sized to filter down to 10 microns. Waste water passes through one bank of filters until enough solid particles have been collected on the bags to show a pressure increase of approximately 15 psi (manually adjusted in the field). A pressure differential switch signals the PLC to reroute the flow of wastewater into the second set of bag filters when pressure exceeds this setting.

The main control panel then sends an alarm to the system operators signifying that it is necessary to change the bag filters in the filter group which had met the pressure setting. If the second bank of filters reaches the preset limit prior to the filter cartridges change out that triggered the switch, the pressure switch shuts down the pump in the central sump and the filter feed pump.

4.2.3.4 Granular-Activated Carbon Vessels

The granular-activated carbon (GAC) vessels have a piping manifold which allows either of the 1,000-pound carbon vessels to be operated in the lead position by manually opening and closing valves. The system has a pressure switch sensing the head loss through the filters. When the pressure switch reaches a preset limit, it sends a signal to the main control panel. The main control panel sends an alarm to the system operators. The pipe manifold on the GAC vessels also has a sample tap located between the lead and lag vessels which allows the operator to periodically collect samples for lab analyses to determine when breakthrough (carbon exhaustion) occurs, so that the lead vessel’s media can be changed and it can be placed in lag mode (the second vessel in series). When the carbon in the lead vessel is exhausted, a media vendor is used to vacuum the lead vessel’s media out and replace it with new media. The new carbon media requires rinsing and back flushing to condition the media (wash the fines out of the new media bed). The conditioning is done by manually positioning valves to supply potable water to the outlet connection

of the vessel and flushing the flow to the conditioning waste storage tank. Backwash water is later cycled back through the treatment system.

4.3 Operation and Maintenance

A comprehensive maintenance plan designed in accordance with manufacturers' recommendations has been implemented and includes necessary components of the groundwater collection system such as trenches, piping, valves, and pumps. The maintenance plan also encompasses components of the groundwater pretreatment and discharge system with the following schedule of requirements:

- Weekly system inspections;
- Annual draining and cleaning of the oil/water separator;
- Monthly lubrication of the pumps;
- Annual meter calibration, and;
- Annual exercising of the valves.

Maintenance requirements and procedures will be documented in the formal O&M Plan to be submitted by April 30, 2010.

APPENDIX A

Field Investigation Documents



DIRECT PUSH PROBE REPORT

**Boring No. NSBW-150
Left**

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 1
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 582.9
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 16	0.0 4.0		ML	0 - 1.3 ft: Soft, dark brown to dark orangish-brown SILT(ML), some cinders and coarse to fine sand, trace slate fragments, ash-like material (ALM) and organics, moist (due to rain) -FILL-
5	S2 0	4.0 8.0			NO RECOVERY, 2nd attempt: NO RECOVERY 3rd attempt: NO RECOVERY
			574.9		
	S3 31	8.0 12.0	8.0	ML	8 - 8.5 ft: Very soft, brown, SILT (ML), little sand and fine gravel, trace rainbow sheen (15% surface), moderate MGP type odor, wet
			573.1	ML	8.5 - 9.8 ft: Soft to medium stiff, brown, SILT (ML), trace fine sand and organics, trace orange mottling, wet
10			9.8	SM	9.8 - 10.6 ft: Medium dense, brownish-gray, silty fine SAND (SM), wet
			570.9		
	S4 30	12.0 16.0	12.0	SM-ML	12 - 14.5 ft: Loose to medium dense, brownish-gray, SILT with sand to silty SAND(SM-ML), wet
15					
	S5 48	16.0 20.0	566.4 16.5	SM SM	16 - 16.5 ft: Medium dense, brownish-gray, silty fine SAND (SM), wet
			565.1		16.5 - 17.8 ft, Medium dense, dark brownish-gray, silty fine SAND (SM), trace shells, grading to fine SAND with little silt, wet
			17.8	SP	17.8 - 18 ft: Medium dense, dark brownish-gray, poorly graded fine SAND (SP), little shells, wet, slight MGP-type odor
			564.9	CL	18 - 20 ft: Hard to stiff, light brownish-gray lean CLAY (CL), moist
20			562.9		
			20.0		-BOTTOM OF EXPLORATION-
					Note: Backfilled borehole with bentonite chips to ground surface.
					Note: Density/consistency based on visual-manual observation.

Water Level Data						Sample Identification		Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	
			Bottom of Casing	Bottom of Hole	Water						Open End Rod
											Overburden (lin. ft.) 20.0
											Rock Cored (lin. ft.)
											Samples 5
										Boring No. NSBW-150 Left	

DIRECT PUSH PROBE REPORT USCSTB+CORE4.GDT G:\PROJECTS\33547_HAMMONDUPLAND SITE\DEC 2006 EXPLORATIONS\33547-201.GPJ 12 Jan 07



DIRECT PUSH PROBE REPORT

**Boring No. NSBW-250
Left**

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 2
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 584.4
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 21	0.0 4.0		SM	0 - 1.8 ft: Soft / loose black cinders, some brown, coarse to fine SAND and SILT (SM-ML), little crushed red brick, trace organics and orange mottling, moist (due to rain) -FILL-
5	S2 14	4.0 8.0	580.0 4.4	SM-ML OL/ OH	4 - 4.4 ft: Soft/ loose, black cinders, some medium brown, coarse to fine SAND and SILT (SM-ML), little crushed red brick, trace organics and orange mottling, moist (due to rain) -FILL- 4.4 - 5.2 ft: Soft, medium to dark brown SILT with organics (OL/OH), little fine SAND, wet, with trace rainbow sheen (< 5% of surface), slight MGP-type odor
10	S3 0	8.0 12.0	576.4 8.0	ML	No recovery 2nd attempt: 6 in. recovery, Soft, brown SILT (ML) 3rd attempt: no recovery
15	S4 29	12.0 16.0	572.4 12.0	ML	12 - 13.8 ft: Soft, medium brown, sandy SILT (ML), trace organics, wet, trace brownish-black OLM (several pin-prick sized blobs), weak MGP-type odor
15	S5 13	16.0 20.0	570.6 13.8	SP- SM	13.8 - 14.4 ft: Medium dense, brownish-gray, poorly graded fine SAND with silt(SP-SM), trace little brownish-black OLM (smear / coating wall of liner), moderate MGP-type odor, wet 16 - 17.1 ft: Very dense to medium dense, brownish-gray, poorly graded fine SAND with silt (SP-SM), weak to moderate MGP-type odor, no OLM
20	S6 12	20.0 24.0	564.4 20.0	SW	20 - 21 ft: Medium dense, white shells and gray, well graded coarse to fine SAND (SW), wet
25	S7 48	24.0 28.0	560.4 24.0 559.4	SP- SM	24 - 25 ft: Medium dense, dark brownish-gray, poorly graded fine SAND with silt(SP-SM), trace white shells, wet

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Water Level Data						Sample Identification			Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.) 32.0
			Bottom of Casing	Bottom of Hole	Water						
											Samples 8
											Boring No. NSBW-250 Left

DIRECT PUSH PROBE REPORT

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)
25			25.0	SW	25 - 25.9 ft: Medium dense, white shells and gray, well graded coarse to fine SAND (SW), wet
			558.5 25.9	CL	
	S8 5	28.0 32.0		CL	Liner filled with slough from above, may have angled off hole 28 -28.4 ft: Stiff to hard, gray lean CLAY (CL), moist
30			552.4 32.0		-BOTTOM OF EXPLORATION-
					Note: Backfill borehole with bentonite to ground surface. Note: Density/consistency based on visual-manual observation.

DIRECT PUSH PROBE REPORT USC SLIB4.GLB USC STB+CORE4.GDT G:\PROJECTS\33547_HAMMONDIUPLAND SITE\DEC 2006 EXPLORATIONS\33547-201.GPJ 12 Jan 07

¹SPT = Sampler blows per 6 in.
 NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



DIRECT PUSH PROBE REPORT

Boring No. NSBW-350

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 2
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 584.9
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 17	0.0 4.0		SM	0 - 1.4 ft: Loose, black cinders, some dark brown, coarse to fine silty SAND(SM), trace red crushed brick and organics, moist (due to rain) <p style="text-align: center;">-FILL-</p>
5	S2 5	4.0 8.0		SM	4 - 4.4 ft: Loose, black cinders, some dark brown, coarse to fine silty SAND (SM), trace red crushed brick and organics, moist (due to rain) <p style="text-align: center;">-FILL-</p>
	S3 26	8.0 12.0	576.9 8.0 576.6 8.3 576.3 8.6	ML OL/ OH ML	8 - 8.3 ft: Very soft, brown SILT (ML), little fine sand, wet 8.3 - 8.6 ft: Soft, brown, SILT with organics (ML/OL/OH), trace fine sand, wet 8.6 - 10.2 ft: Medium dense, brownish-gray, sandy SILT(ML), trace organics and white shells, wet
	S4 14	12.0 14.0		ML	12 - 13.2 ft: Medium dense, brownish-gray, sandy SILT(ML), trace organics and white shells, wet
15	S5 30	16.0 20.0	566.9 18.0	ML SP	16 - 18 ft: Medium dense, brownish-gray, sandy SILT(ML), trace organics and white shells, wet 18 - 18.5 ft: Medium dense, brownish-gray, poorly graded fine SAND (SP), trace white shells, wet
20	S6 48	20.0 24.0	563.1 21.8 562.7 22.2 560.9 24.0	SP SW CL	20 - 21.8 ft: Medium dense, brownish-gray, poorly graded fine SAND (SP), trace white shells, wet 21.8 - 22.1 ft: Medium dense, white shells (0.1 - 0.15 in. diameter), well graded coarse to fine SAND(SW), wet 22.2 - 24 ft: Stiff to hard, gray lean CLAY, moist
-BOTTOM OF EXPLORATION-					Note: Backfill borehole with bentonite chips to ground surface.

Water Level Data						Sample Identification		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G
			Bottom of Casing	Bottom of Hole	Water					
										Overburden (lin. ft.) 24.0 Rock Cored (lin. ft.) Samples 6
										Boring No. NSBW-350

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DIRECT PUSH PROBE REPORT

Boring No. NSBW-350

File No. 33547-201

Sheet No. 2 of 2

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)
					<p>Note: Density/consistency based on visual-manual observation.</p>

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¹SPT = Sampler blows per 6 in.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.

Boring No. NSBW-350



DIRECT PUSH PROBE REPORT

Boring No. NSBW-450

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 2
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 585.9
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 14	0.0 4.0		ML	0 - 1.2 ft: Loose, dark brown sandy SILT(ML) , some to little crushed red brick, trace cinders, coarse to medium sand, moist (due to rain) <p style="text-align: center;">-FILL-</p>
	S2 30	4.0 8.0	581.2 4.7 580.4 5.5	ML- OL/ OH/ OL/ OH	4 - 4.7 ft: Wood and crushed red brick, little brown SILT, moist <p style="text-align: center;">-FILL-</p> 4.7 - 5.5 ft: Soft, dark brown SILT (ML-OL/OH), little organics, moist 5.5 - 6.5 ft: Soft, dark brown, SILT AND ORGANICS (OL/OH),moist
	S3 19	8.0 12.0	577.9 8.0	SP	8 - 9.6 ft: Medium dense, gray to dark gray poorly graded fine SAND(SP), trace crushed red brick and medium white gravel, wet <p style="text-align: center;">-FILL-</p>
	S4 48	12.0 16.0	573.9 12.0	SP	12 - 16 ft: Medium dense, gray poorly graded fine SAND (SP), wet
	S5 48	16.0 20.0		SP	16 - 19.5 ft: Very dense, gray poorly graded fine SAND (SP), trace white shells, wet
	S6 24	20.0 24.0	566.4 19.5 566.3 19.6	SP CL	19.5 - 19.6 ft: Medium dense, gray poorly graded fine SAND (SP), white shells (0.1 - .75 in. diameter), some black staining, weak to moderate MGP-type odor, wet 19.6 - 20 ft: Stiff to hard, gray lean CLAY (CL), moist 20 - 22 ft: Stiff to hard, gray lean CLAY (CL), moist
			561.9 24.0		-BOTTOM OF EXPLORATION-
Note: Backfill borehole with bentonite chips to ground surface.					

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 DIRECT PUSH PROBE REPORT USCSTB+CORE4.GDT USCSTB+CORE4.GLB USCSTB+CORE4.GDT

Water Level Data						Sample Identification		Summary				
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G		
			Bottom of Casing	Bottom of Hole	Water						Open End Rod	Thin Wall Tube
											Overburden (lin. ft.) 24.0	
											Rock Cored (lin. ft.)	
											Samples 6	
Boring No. NSBW-450												



DIRECT PUSH PROBE REPORT

Boring No. NSBW-450

File No. 33547-201

Sheet No. 2 of 2

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)
					<p>Note: Density/consistency based on visual-manual observation.</p>

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¹SPT = Sampler blows per 6 in.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.

Boring No. NSBW-450



DIRECT PUSH PROBE REPORT

Boring No. NSBW-550

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 2
 Start 12 December 2006
 Finish 12 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 585.0
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 17	0.0 4.0		SM	0 - 4 ft: Loose to medium dense, dark brown to brownish-black, cinders, silty SAND (SM), some to little tan brick, fine gravel, moist (due to rain) -FILL- NOTE: No air monitoring conducted due to rain and very damp conditions.
			581.0		
	S2 32	4.0 8.0	4.0 580.2	OL/ OH	4 - 4.8 ft: Soft, brown ORGANICS and SILT/PEAT (OL/OH), trace fine sand, moist to wet
5			4.8	OL/ OH- SP	4.8 - 6.7 ft: Medium dense, light brownish-gray poorly graded fine SAND(SP) with little wood and layers of peat (OL/OH) at 5.1 - 5.3 ft and 6.1 - 6.2 ft below ground surface, wet NOTE: Fibers approximately 0.01 in. wide x 2 in. long
			577.0		
	S3 48	8.0 12.0	8.0	SP	8 - 12 ft: Medium dense to dense, light gray to gray poorly graded fine SAND (SP), trace white shells, wet
10					
	S4 48	12.0 16.0		SP	12 - 16 ft: Medium dense to dense, light gray to gray poorly graded fine SAND (SP), trace white shells, wet
15					
	S5 48	16.0 20.0		SW	16 - 18 ft: Light gray, well graded fine SAND (SW)
			567.0		
			18.0	SM	18 - 19.7 ft: Medium dense to dense, gray SILTY fine SAND (SM), trace shells, wet
20			565.3		
	S6 48	20.0 24.0	19.7 565.2	SP- SM CL CL	19.7 - 19.8 ft: Gray, silty fine SAND with shells (SP-SM), moist 19.8 - 20.0 ft: Stiff to hard, gray lean CLAY (CL), moist 20 - 24 ft: Stiff to hard, gray lean CLAY (CL), trace fine gravel, shells, and silt, moist
			561.0		
			24.0		-BOTTOM OF EXPLORATION-

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 DIRECT PUSH PROBE REPORT USCSTB+CORE4.GDT USCSTB+CORE4.GLB USCSTB+CORE4.GDT

Water Level Data						Sample Identification		Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	
			Bottom of Casing	Bottom of Hole	Water						Open End Rod
											Overburden (lin. ft.) 24.0
											Rock Cored (lin. ft.)
											Samples 6
											Boring No. NSBW-550

DIRECT PUSH PROBE REPORT

Boring No. NSBW-550

File No. 33547-201

Sheet No. 2 of 2

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
					<p>Note: Backfill borehole with bentonite chips to ground surface.</p> <p>Note: Density/consistency based on visual-manual observation.</p>

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¹SPT = Sampler blows per 6 in.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



DIRECT PUSH PROBE REPORT

Boring No. NSBW-650

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 2
 Start 12 December 2006
 Finish 12 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 585.1
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 23	0.0 4.0	583.9 1.2	ML SW	0 - 1.2 ft: Soft, tannish-brown SILT (ML), little clay and fine sand, trace organics, moist (due to rain) -FILL- NOTE: No air monitoring conducted due to rain and very damp conditions. 1.2 - 1.9 ft: Loose, black (stained), well graded coarse to fine SAND (SW), moist, strong MGP-type odor
5	S2 18	4.0 8.0	581.1 4.0 580.8 4.3 579.9 5.2	SW-SM OL/OH SP	4 - 4.3 ft: Loose, black (stained), coarse to fine SAND (SW-SM), little silt, strong MGP-type odor, wet 4.3 - 5.2 ft: Soft, brown WOOD AND SILT (OL/OH), moist, slight MGP-type odor 5.2 - 5.5 ft: Medium dense, light gray to gray poorly graded fine SAND (SP), wet, slight MGP-type odor
10	S3 41	8.0 12.0		SP	8 - 11.4 ft: Medium dense, light gray poorly graded fine SAND (SP), trace white shells, wet, very weak MGP-type odor
15	S4 41	12.0 16.0		SP	12 - 15.4 ft, Medium dense, light gray poorly graded fine SAND (SP), wet, very weak MGP-type odor
20	S5 NR	16.0 20.0		SP	16- 20 ft: Medium dense, gray poorly graded fine SAND (SP) wet, very weak MGP-type odor Note: No actual sample recovery (driller forgot liner), sample collected from rods.
25	S6 48	20.0 24.0	563.3 21.8	SP CL	20 - 21.8 ft: Medium dense, gray poorly graded fine SAND (SP), wet, very weak MGP-type odor 21.6 - 21.8 ft: Moderate rainbow sheen expanding with time 21.75 - 21.8 ft: Dark brownish black, product (oil like, strong MGP-type odor, some/not fully saturated), OLM is moving down geoprobe liner slice mark on side of sample
	S7 48	24.0 28.0		CL	24 - 28 ft: Stiff to hard, gray lean CLAY (CL), moist, no odor

Water Level Data						Sample Identification			Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.) 28.0
			Bottom of Casing	Bottom of Hole	Water						
											Samples 7
											Boring No. NSBW-650

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DIRECT PUSH PROBE REPORT

Boring No. NSBW-650

File No. 33547-201

Sheet No. 2 of 2

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
25			557.1 28.0	CL	<p>Stiff to hard, gray lean CLAY (CL), moist, no odor</p> <hr/> <p style="text-align: center;">-BOTTOM OF EXPLORATION-</p> <p>Note: Backfill borehole with bentonite chips to ground surface.</p> <p>Note: Density/consistency based on visual-manual observation.</p>

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¹SPT = Sampler blows per 6 in.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



DIRECT PUSH PROBE REPORT

Boring No. NSBW-850

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 1
 Start 12 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 583.2
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 19	0.0 4.0			0 - 1.6 ft: Loose, dark brownish-black poorly graded fine SAND(SP) and cinders, little crushed red and tan brick, coarse to medium sand and silt, moist (due to rain) <p style="text-align: center;">-FILL-</p> NOTE: No air monitoring conducted due to rain and very damp conditions.
			579.2		
	S2 35	4.0 8.0	4.0 578.1	ML- OL/ OH	4 - 5.1 ft: Stiff, dark brown SILT (ML-OL/OH), some organics, wet
5			5.1	OL/ OH	5.1 - 6.1 ft: Soft, dark brown, PEAT (OL/OH), wet, moderate MPG-type odor
				ML- OL/ OH	6.1 - 6.9 ft: Stiff, dark brown SILT (ML-OL/OH), some organics, wet
	S3 4	8.0 12.0		OL/ OH	8 - 8.3 ft: Soft, dark brown, PEAT (OL/OH), wet, slight MGP-type odor
10					
			571.2		
	S4 19	12.0 16.0	12.0 570.5	ML SP	12 - 12.7 ft: Very soft, dark brown SILT (ML), some fine sand, trace fine gravel, wet
			12.7		12.7 - 13.6 ft: Medium dense, brownish-gray, fine SAND (SP), wet
15					
	S5	16.0 20.0		SP	16 - 18.7 ft: Medium dense, dark brownish-gray, fine SAND (SP), trace white shells, wet, little shells 18.6 - 18.7 ft.
			564.5		
			18.7	CL	18.7 - 20 ft: Stiff to hard, light gray lean CLAY (CL), moist
20			563.2		
			20.0		-BOTTOM OF EXPLORATION-
					Note: Backfill borehole with bentonite chips to ground surface. Note: Density/consistency based on visual-manual observation.

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Water Level Data						Sample Identification		Summary			
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	
			Bottom of Casing	Bottom of Hole	Water						Open End Rod
											Overburden (lin. ft.) 20.0
											Rock Cored (lin. ft.)
											Samples 5
											Boring No. NSBW-850



DIRECT PUSH PROBE REPORT

Boring No. NSBW-950

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 1
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 581.7
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description (Density/consistency, color, GROUP NAME, max. particle size ² , structure, odor, moisture, optional descriptions, geologic interpretation)
0	S1 32	0.0 4.0	581.3 0.4	ML SM	0 - 0.4 ft: Soft, dark brown to orangish-brown, SILT(ML), little coarse to fine sand and organics, trace cinders, moist (due to rain) -FILL- 0.4 - 2.65 ft: Medium dense, dark orangish-brown, SILTY fine SAND(SM), little organics, trace coal, glass and metal, moist -FILL-
5	S2 37	4.0 8.0	577.2 4.5	ML	4 - 4.5 ft: Medium dense, dark orangish-brown, SILTY fine SAND(SM), little organics, trace coal, glass and metal, moist -FILL- 4.5 - 7.1 ft: Medium dense to dense, dark brown, SILT (ML), trace fine sand, wet
	S3 32	8.0 12.0		ML	8 - 9.6 ft: Medium dense to dense, dark brown, SILT (ML), trace fine sand, wet
10				ML	9.6 - 10.7 ft: Medium dense to dense, dark brownish-gray, sandy SILT (ML), trace fine white shells, wet
	S4 31	12.0 16.0		ML	12 - 13.8 ft: Soft, dark brownish-gray, sandy SILT (ML), trace fine white shells, wet
				ML	13.8 - 14.6 ft: Medium dense, dark brownish-gray, sandy SILT (ML), trace shells, wet
15	S5 48	16.0 20.0		ML	16 - 17.8 ft: Medium dense, dark brownish-gray, sandy SILT (ML), trace shells, wet
			563.9 17.8	SP	17.8 - 18 ft: Dense, dark brownish-gray, fine SAND (SP), little coarse sand to fine gravel and white shells, wet
			563.7 18.0	CL	18 - 20 ft: Stiff to hard, light gray to gray lean CLAY (CL), moist
20			561.7 20.0		-BOTTOM OF EXPLORATION-
					Note: Backfill borehole with bentonite chips to ground surface. Note: Density/consistency based on visual-manual observation.

DIRECT PUSH PROBE REPORT USCSTB+CORE4.GDT G:\PROJECTS\33547_HAMMONDUPLAND SITE\DEC 2006 EXPLORATIONS\33547-201.GPJ 12 Jan 07

Water Level Data						Sample Identification			Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.) 20.0
			Bottom of Casing	Bottom of Hole	Water						
											Samples 5
											Boring No. NSBW-950



DIRECT PUSH PROBE REPORT

Boring No. NSWB-750

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 2
 Start 12 December 2006
 Finish 12 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 583.9
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 28	0.0 4.0		ML SP	0 - 1.1 ft: Medium stiff, medium to dark brown, SILT(ML), some coarse to fine sand, little crushed red brick, moist (due to rain) -FILL-
					NOTE: No air monitoring conducted due to rain and very damp conditions. 1.1 - 2.3 ft: Loose, black (stained), medium to fine SAND(SP), some cinders, trace coarse sand to fine gravel and tan brick, moist
5	S2 18	4.0 8.0	579.4 4.5	OL/ OH	4 - 4.5 ft: Loose, black (stained), medium to fine SAND(SP), some cinders, trace coarse sand to fine gravel and tan brick, moist, possibly to 7 ft below ground surface, wet -FILL-
					4.5 - 5.5 ft: Soft, dark brown PEAT (OL/OH), moist
10	S3 17	8.0 12.0	575.9 8.0	ML	8 - 9.4 ft: Medium dense, gray to dark brownish-gray, fine sandy SILT (ML), trace white shells, wet
15	S4 20	12.0 16.0	571.9 12.0	SP- SM	12 - 16 ft: Loose to medium dense, medium to dark brownish-gray, fine SAND (SP-SM), little silt, wet, trace white shells
20	S5 48	16.0 20.0		ML	16 - 20 ft: Soft, dark gray to brownish-gray, sandy SILT(ML), trace white shells, wet
	S6 48	20.0 24.0	563.9 20.0 563.4 20.5	ML CL	20 - 20.5 ft: Soft, dark gray to brownish-gray, sandy SILT(ML), trace white shells, wet 20.5 - 24 ft: Stiff to hard, light gray lean CLAY (CL), moist
			559.9 24.0		-BOTTOM OF EXPLORATION-
					Note: Backfill borehole with bentonite chips to ground surface.

Water Level Data						Sample Identification			Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.) 24.0
			Bottom of Casing	Bottom of Hole	Water						
											Samples 6
											Boring No. NSWB-750

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DIRECT PUSH PROBE REPORT

Boring No. NSWB-750

File No. 33547-201

Sheet No. 2 of 2

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
					<p>Note: Density/consistency based on visual-manual observation.</p>

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¹SPT = Sampler blows per 6 in.

NOTE: Soil descriptions based on a modified Burmister method of visual-manual identification as practiced by Haley & Aldrich, Inc.



DIRECT PUSH PROBE REPORT

Boring No. SBW-300

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 1
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 583.1
 Datum NGVD 1929
 Location See Plan

Type	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Inside Diameter (in.)		2.0		Rig Make & Model: Geoprobe 6620 DT
Hammer Weight (lb.)				Bit Type:
Hammer Fall (in.)				Drill Mud:
				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 12	0.0 4.0		ML	0 - 1 ft: Soft, dark brown, SILT(ML), some coarse to fine sand, little crushed tan brick, organics, cinders, trace bluish-stained white coarse gravel (lime?) and partially burnt white layered (thin "page-like" layers) plastic like material (1 in. width x 2 in. length), dry -FILL-
5	S2 16	4.0 8.0		ML	4 - 5.3 ft: Loose, dark brown, SILT(ML), some coarse to fine sand, little crushed red brick, organics, cinders, trace bluish-stained white coarse gravel (lime?), green plastic like material (1/2 in. diameter - 1 in. diameter), dry -FILL-
10	S3 24	8.0 12.0		ML	8 - 10 ft: Loose, dark brown, SILT(ML), some coarse to fine sand, little crushed red brick, organics, cinders, trace bluish-stained white coarse gravel (lime?), green plastic like material (1/2 in. diameter - 1 in. diameter), dry, little white ceramic, wet -FILL-
15	S4 0	12.0 16.0	571.1 12.0	SP	No recovery 2nd attempt: 0.3 ft recovery Medium dense, grayish-brown, fine SAND (SP), little white shells, wet, some brown OLM, moderate MGP-type odor
20	S5 53	16.0 20.0	566.2 16.9	SP CL	16 - 16.9 ft: Very dense, grayish-brown, fine SAND (SP), little white shells, wet, very strong MGP-type odor, some dark goldish-brown to black OLM (inside walls of liner coated), secondary light/sweet petroleum odor present, OLM pooling out of sand (approximately 1/4 in. diameter pool forming) 16.9 - 20.4 ft: Stiff to hard, light gray lean CLAY (CL), moist
			563.1 20.0		-BOTTOM OF EXPLORATION-
<p>Note: Backfill borehole with bentonite chips to ground surface.</p> <p>Note: Density/consistency based on visual-manual observation.</p>					

Water Level Data						Sample Identification		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G
			Bottom of Casing	Bottom of Hole	Water					
										Overburden (lin. ft.) 20.0
										Rock Cored (lin. ft.)
										Samples 5
										Boring No. SBW-300

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DIRECT PUSH PROBE REPORT

Boring No. SBW-500

Project Former Hammond MGP Site Hammond, Indiana
 Client NiSource, Inc.
 Contractor Boart Longyear - Indianapolis, Indiana

File No. 33547-201
 Sheet No. 1 of 1
 Start 13 December 2006
 Finish 13 December 2006
 Driller Kevin Simpson
 H&A Rep. K. Gross
 Elevation 582.9
 Datum NGVD 1929
 Location See Plan

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 12	0.0 4.0		ML	0 - 1 ft: Soft, dark brown SILT(ML), little coarse to fine SAND, crushed tan bricks, bluish stained white 1/2 in. to 1 in. diameter gravel fragments (possibly lime?), trace organics, moist (due to rain) -FILL-
5	S2 17	4.0 8.0	577.9 5.0	ML GP	4 - 5 ft: Loose, dark brown SILT(ML), little coarse to fine SAND, crushed tan bricks, bluish stained white 1/2 in. to 1 in. diameter gravel fragments (possibly lime?), trace organics, moist (due to rain) -FILL- 5 - 5.4 ft: Loose, white medium to fine crushed GRAVEL (GP), dry
10	S3 12	8.0 12.0	574.9 8.0	SP SM	8 - 9 ft: Loose to medium dense, brown to dark brown, fine SAND(SP-SM), some silt, trace crushed white gravel and tan brick -FILL-
15	S4 36	12.0 16.0	570.9 12.0	ML ML	12 - 13.5 ft: very soft, brown to dark brown, SILT (ML), little fine sand, wet, trace (approximately 9 < 1/4 in. diameter blocks) brownish black OLM, moderate to heavy rainbow sheen (approximately 50% of surface), strong MGP-type odor 13.5 - 15 ft: Very soft to soft, brown to dark brown, SILT(ML), trace little fine sand, trace organics and shells, moderate MGP-type odor, 13.5 - 14 ft, moderate sheen (approximately 10% surface), little brownish black OLM, strong MGP-type odor
20	S5 53	16.0 20.0	566.9 16.0	SP	16 - 17.8 ft: Medium dense, brownish-gray to dark brownish-gray, fine SAND (SP), wet, trace rainbow sheen (approximately 2 spots < 1/4 in. diameter)
			565.1 17.8 564.4 18.5 564.2 18.7 562.9 20.0	SM- ML SP CL	17.8 - 18.5 ft: Medium dense, dark brown, fine silty SAND to sandy SILT (SM-ML), little shells, wet, slight MGP-type odor 18.5 - 18.7 ft: Medium dense, dark brown, fine SAND (SP), some shells, little silt, wet, strong MGP-type odor, some brownish-black OLM (approximately 4 1/4 in. - 1/2 in. diameter blobs), moderate rainbow sheen (approximately 40% of surface) 18.7 - 20.4 ft: Stiff to hard, light gray lean CLAY (CL), moist -BOTTOM OF EXPLORATION-
<p>Note: Backfill borehole with bentonite chips to ground surface.</p> <p>Note: Density/consistency based on visual-manual observation.</p>					

Water Level Data						Sample Identification		Summary					
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G			
			Bottom of Casing	Bottom of Hole	Water						Open End Rod	Thin Wall Tube	Undisturbed Sample
											Overburden (lin. ft.) 20.0	Rock Cored (lin. ft.)	Samples 5
Boring No. SBW-500													

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 DIRECT PUSH PROBE REPORT USCSTB+CORE4.GDT USCSTB+GLB

Project Former Hammond MGP Site Hammond, Indiana Client NiSource, Inc. Contractor Boart Longyear - Indianapolis, Indiana	File No. 33547-201 Sheet No. 1 of 1 Start 13 December 2006 Finish 13 December 2006
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	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type				Rig Make & Model: Geoprobe 6620 DT
Inside Diameter (in.)		2.0		Bit Type:
Hammer Weight (lb.)				Drill Mud:
Hammer Fall (in.)				Casing:
				Hoist/Hammer:
				Elevation 581.2
				Datum NGVD 1929
				Location See Plan

Depth (ft.)	Sample No. & Rec. (in.)	Sample Depth (ft.)	Elev./Depth (ft.)	USCS Symbol	Visual-Manual Identification and Description <small>(Density/consistency, color, GROUP NAME, max. particle size², structure, odor, moisture, optional descriptions, geologic interpretation)</small>
0	S1 12	0.0 4.0		ML	0 - 1 ft: Soft, dark brown SILT(ML), little fine sand, trace organics, 1/4 in. to 1 in. diameter tan brick fragments, cinders and glass, moist -FILL-
5	S2 0	4.0 8.0			No recovery 2nd attempt: No recovery, water at approximately 4 ft below ground surface, very loose material is sliding out of sampler
	S3 24	8.0 12.0	573.2 8.0	ML ML	8 - 9 ft: Very soft, dark brown SILT (ML), trace organics and coarse to fine sand, wet, moderate rainbow sheen (approximately 20% of surface), little brown OLM (approximately 12 1/4 in. blobs), moderate to strong MGP-type odor 9 - 10 ft: Soft to medium stiff, dark brown SILT (ML), little fine sand, trace white shells, wet, moderate MGP-type odor, trace rainbow sheen
	S4 34	12.0 16.0	567.3 13.9	ML SM SP- SM	12 - 13 ft: Soft to medium stiff, dark brown SILT (ML), little fine sand, trace white shells, wet, moderate MGP-type odor, trace rainbow sheen 12 - 13.9 ft: Soft to medium stiff, dark brown SILT (ML), grading to medium dense, silty fine SAND (SM), wet, moderate MGP-type odor, trace white shells 13.9 - 14.8 ft: Medium dense, dark brownish-gray, fine SAND (SP-SM), little silt, trace shells, trace brownish black OLM located in coarser grained shell areas, trace rainbow sheen in these areas (approximately 3 areas 1/2 in. diameter), moderate MGP-type odor
	S5 46	16.0 20.0	563.5 17.7 563.4 17.8 561.2 20.0	SP- SM SP CL	16 - 17.7 ft: Medium dense, dark brownish-gray, fine SAND (SP-SM), little silt, trace shells, trace brownish black OLM located in shell pockets, trace rainbow sheen in these areas (approximately 3 sheen spots, 1/2 in. diameter), moderate MGP-type odor 17.7 - 17.8 ft: Medium dense, dark brownish-gray, fine SAND AND SHELLS (SP), wet, some to little brownish-black OLM, moderate rainbow sheen and moderate to strong MGP-type odor 17.8 - 20 ft: Stiff to hard, light gray to gray lean CLAY (CL), moist
					-BOTTOM OF EXPLORATION-
					Note: Backfill borehole with bentonite chips to ground surface. Note: Density/consistency based on visual-manual observation.

Water Level Data						Sample Identification			Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft.) to:			O	T	U	S	G	Overburden (lin. ft.) 20.0
			Bottom of Casing	Bottom of Hole	Water						
											Samples 5
											Boring No. SBW-700

DIRECT PUSH PROBE REPORT USCSTB+CORE4.GDT USCSTB+GLB USCSTB+CORE4.GDT G:\PROJECTS\33547_HAMMONDUPLAND SITE\DEC 2006 EXPLORATIONS\33547-201.GPJ 12 Jan 07



TEST BORING REPORT

BORING NO.

GP-01

Page 1 of 1

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/16/2007
DRILLER	Jeff Stone	DATE FINISHED	7/16/2007

Elevation	ft.	Datum	Boring Location						
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None	
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:		

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test				
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength					
0	0.0	S1		NA	1.2	ML	Loose soft, Reddish Brown, SILT (ML) w/ Fine Sand and Trace Organics, Moist, No Odor Noted															
	0.0				2.0	SW	Loose, Black, Well Graded Coarse to Fine SAND (SW), Moist, MGP Like Odor															
	0.0	32				ML	Soft, Brown to Black, SILT (ML) w/ Fine Sand, Moist, MGP Like Odor															
5	0.0	S2			6.0	SP	Medium Dense, Light Grey to Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, No Odor Noted															
	0.0	32																				
10	0.0	S3				SP	Similar to Above w/ Trace MGP Like Odor															
	0.0	56																				
15	0.0	S4				SP	Similar to Above w/ Trace MGP Like Odor															
	0.0	58	1 18-20		19.0																	
20	0.0	S5				CL	Stiff to Hard, Gray, Lean CLAY (CL), Moist, No Odor Noted															
	0.0	57																				
25							BOE @ 25 ft.															

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data					Sample ID			Well Diagram			Summary														
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples	BORING NO.	GP-01			
			Bottom of Casing	Bottom of Hole	Water																		25	0	1
NA																									
Field Tests		Dilatancy: R - Rapid S - Slow N - None						Plasticity: N - Nonplastic L - Low M - Medium H - High						Toughness: L - Low M - Medium H - High						Dry Strength: N - None L - Low M - Medium H - High V - Very High					
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.																									
NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																									

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TEST BORING REPORT

BORING NO.

GP-02

Page 1 of

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/16/2007
DRILLER	Jeff Stone	DATE FINISHED	7/16/2007

Elevation	ft.	Datum	Boring Location						
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None	
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:		

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0				NA		ML	Soft, Reddish Brown, SILT (ML) w/ fine Sand, Moist, No Odor Noted														
	0.0	S1			1.5	SP	Hard, Poorly Graded SAND (SP) w/ Coke and Brick Fragments (MPS= 0.3 in.), Moist, Strong MGP Like Odor														
	20.8																				
	21.9	30			4.0	ML	Soft, Brown to Black, SILT (ML) w/ Trace Organics, Moist, Strong MGP Like Odor														
5																					
	0.0	S2			5.5	SP	Medium Dense, Light Grey to Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, Slight MGP Like Odor														
	0.0	36																			
10						SP	Similar to Above														
	0.0	S3																			
	0.0	59																			
15						SP	Similar to Above w/ Full White Shells and Fragments														
	0.0	S4																			
	0.0	57	1 17-19		18.5	CL	Stiff to Hard, Gray, Lean CLAY (CL) w/ Trace Fine Sand and Shell Fragments, Moist, No Odor Noted														
20						CL	Similar to Above w/ Little to No Sand and Shell Fragments below 20 ft.														
	0.0	S5																			
	0.0	59																			
25							BOE @ 25 ft.														

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data				Sample ID			Well Diagram			Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	Overburden (Linear ft.)	25
			Bottom of Casing	Bottom of Hole	Water						<input type="checkbox"/> Screen		Rock Cored (Linear ft.)
			NA					<input checked="" type="checkbox"/> Cuttings			Number of Samples	1	
								<input type="checkbox"/> Grout			BORING NO. GP-02		
								<input type="checkbox"/> Concrete					
								<input type="checkbox"/> Bentonite Seal					
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High					
		Toughness: L - Low M - Medium H - High											
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.													
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.													

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TEST BORING REPORT

BORING NO.
GP-03

Page 1 of

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/16/2007
DRILLER	Jeff Stone	DATE FINISHED	7/16/2007

Elevation	ft.	Datum	Boring Location			Hammer Type	Drilling Mud	Casing Advance
Item	Casing	Sampler	Core Barrel	Rig Make & Model		<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Polymer	Direct Push
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> None	
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit		
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:	

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	0.0	S1		NA	1.0	ML	Loose Soft, Light Brown, SILT (ML) w/ trace fine Sand and Gravel (MPS = .1 in.), DRY, No Odor Noted											
	0.0		38			SW	Loose, Black, Well Graded SAND (SW) w/ Gravel and Coke (MPS = .25 in.), Moist, MGP Like Odor											
	0.0				4.0	ML	Soft, Brown to Black, SILT (ML) w/ Fine Sand and Trace Organics, Moist, MGP Like Odor											
5	0.0	S2			7.0	SP	Medium Dense, Light Grey to Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, Slight MGP Like Odor											
	0.0		49															
10	0.0	S3				SP	Similar to Above											
	0.0		58															
15	0.0	S4				SP	Similar to Above w/ Trace Gravel (MPS = .25 in.)											
	0.0		57	1 19-21														
20	0.0	S5			18.5	CL	Stiff to Hard, Gray, Lean CLAY (CL), Moist, No Odor Noted											
	0.0		54			CL	Similar to Above											
25							BOE @ 25 ft.											

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data					Sample ID				Well Diagram				Summary						
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	25
			Bottom of Casing	Bottom of Hole	Water														
NA													BORING NO. GP-03						
Field Tests		Dilatancy: R - Rapid S - Slow N - None				Plasticity: N - Nonplastic L - Low M - Medium H - High				Toughness: L - Low M - Medium H - High				Dry Strength: N - None L - Low M - Medium H - High V - Very High					
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.																			
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																			

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TEST BORING REPORT

BORING NO.

GP-04

Page 1 of 1

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/16/2007
DRILLER	Jeff Stone	DATE FINISHED	7/16/2007

Elevation	ft.	Datum	Boring Location						
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None	Direct Push
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:		

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0			1	NA		ML	Loose Soft, Light Brown, SILT (ML) w/ trace fine Sand, Gravel, and Coke (MPS = .15 in.), DRY, No Odor Noted												
	0.0	S1	0-1		1.5	SW	Loose, Black, Well Graded SAND (SW) w/ Gravel (MPS = .1 in.), Moist, No Odor Noted												
	0.0	38			4.0	ML	Soft, Brown to Black, SILT (ML) w/ Trace Organics, Moist, Slight MGP Like Odor												
5					7.0	SP	Medium Dense, Light Grey to Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, Slight MGP Like Odor												
	0.0	S2																	
	0.0	42																	
10						SP	Similar to Above												
	0.0	S3																	
	0.0	46																	
15						SP	Similar to Above w/ Trace Gravel (MPS = .25 in.)												
	0.0	S4																	
	0.0	49	2 19-20		19.5	CL	Stiff to Hard, Gray, Lean CLAY (CL), Moist, No Odor Noted												
20						CL	Similar to Above												
	0.0	S5																	
	0.0	60																	
25							BOE @ 25 ft.												

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data				Sample ID			Well Diagram			Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	Overburden (Linear ft.)	25
			Bottom of Casing	Bottom of Hole	Water						<input type="checkbox"/> Screen		Rock Cored (Linear ft.)
			NA					<input checked="" type="checkbox"/> Cuttings			Number of Samples	2	
											BORING NO.	GP-04	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/17/2007
DRILLER	Jeff Stone	DATE FINISHED	7/17/2007

Elevation			ft. Datum		Boring Location				Hammer Type			Drilling Mud			Casing Advance						
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Hammer Type			Drilling Mud			Casing Advance								
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head			<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth										
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch			<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push										
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit			<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None											
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head			Drilling Notes:												
Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description <small>(density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)</small>				Gravel % Coarse	Gravel % Fine	Sand % Coarse	Sand % Medium	Sand % Fine	Field Test					
0				NA																	
	0.0	S1			1.3	ML	Loose Soft, Light Brown to Black, SILT (ML) w/ trace fine Sand, Moist, Slight MGP Like Odor														
	18.6					SW	Loose, Grey to Black (w/ depth), Well Graded SAND (SW), MGP Like Odor, Trace OLM @ 3.5 ft.														
	3.2	40			3.5	ML	Soft, Brown to Black, SILT (ML) w/ Trace Fine Sand and Organics, Moist, Slight MGP Like Odor														
5	0.0	S2			6.0	SP	Medium Dense, Light Grey to Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, No Odor Noted														
	0.0	37																			
10	0.0	S3				SP	Similar to Above														
	0.0	58																			
15	0.0	S4				SP	Similar to Above														
	0.0	56	1	19-20	19.5	CL	Stiff to Hard, Gray, Lean CLAY (CL), Moist, No Odor Noted														
20	0.0	S5				CL	Similar to Above														
	0.0	59																			
25							BOE @ 25 ft.														
							Notes: Borehole Backfilled to Surface w/ Bentonite Chips Stake Placed 4 in. East of Borehole														

Water Level Data					Sample ID			Well Diagram			Summary								
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water														
NA															BORING NO.	GP-05			

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO.

GP-06

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/17/2007
DRILLER	Jeff Stone	DATE FINISHED	7/17/2007

Elevation	ft.	Datum	Boring Location			Hammer Type	Drilling Mud	Casing Advance
Item	Casing	Sampler	Core Barrel	Rig Make & Model		<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Polymer	Direct Push
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch		
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input type="checkbox"/> None	
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:	

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength							
0	0.0	S1		NA	0.5	ML	Loose, Brown, SILT (ML) w/ trace Gravel (MPS = .5 in.), DRY, No Odor Noted																	
	0.0				2.0	SW	Loose, Brown, Well Graded SAND (SW) w/ trace Gravel (MPS = .25 in.), Moist, No Odor Noted																	
	0.0	41			3.5	SW	Fine, Grey, Well Graded SAND (SW), Moist, Slight MGP Like Odor																	
	0.0					ML	Soft, Brown to Black, SILT (ML) w/ Trace fine Sand, Wood Fibers, and organics, Moist, Slight MGP Like Odor																	
5	0.0	S2			6.5	SP	Medium Dense, Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, Slight MGP Like Odor																	
	0.0	46																						
10	0.0	S3				SP	Similar to Above																	
	0.0	59																						
15	0.0	S4				SP	Similar to Above																	
	0.0	60	1 19.5-20.5				Note: Sample in Shoe of Rods has Trace OLM @ 20 ft.																	
20	0.0	S5			20.0	CL	Stiff to Hard, Gray, Lean CLAY (CL), Moist, No Odor Noted																	
	0.0	60																						
25							BOE @ 25 ft.																	

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data				Sample ID		Well Diagram		Summary															
Date	Time	Elapsed Time (hr.)	Depth In feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input checked="" type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	25	Rock Cored (Linear ft.)	0	Number of Samples	1
			Bottom of Casing	Bottom of Hole	Water													BORING NO. GP-06					
NA						Field Tests Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High																	
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																							

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TEST BORING REPORT

BORING NO.
GP-07

Page 1 of

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/17/2007
DRILLER	Jeff Stone	DATE FINISHED	7/17/2007

Elevation		ft. Datum		Boring Location					
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance		
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> ATV <input type="checkbox"/> Track <input type="checkbox"/> Skid	<input type="checkbox"/> Tripod <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Air Track <input type="checkbox"/>	<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None	<input type="checkbox"/> Direct Push
Inside Diameter (In.)	2	1.75							
Hammer Weight (lb.)									
Hammer Fall (in.)									

Depth (ft.)	PID (ppm)	Sample No. & Recovery (In.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1	1 1.25-2.5	NA	1.25	ML	Loose, Brown, SILT (ML) w/ trace Gravel (MPS = 1.25 in.), Moist (from rain), No Odor Noted												
	READINGS				2.5	ML	Clinker and Coke w/ red-brown wood fibers, Gravel w/ trace Silt, MGP Like Odor												
	TAKEN DUE	34					Soft, Brown to Black, SILT (ML) w/ Trace fine Sand, Wood Fibers, and organics, Moist, MGP Like Odor												
	TO RAIN																		
5		S2			7.0	SP	Medium Dense, Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, Slight MGP Like Odor												
		40																	
10		S3				SP	Similar to Above												
		59																	
15		S4				SP	Similar to Above w/ Stronger MGP Like Odor @ 19.5 ft.												
		54	2 19.25-20.25																
20		S5			19.75	CL	Stiff to Hard, Gray, Lean CLAY (CL), Moist, No Odor Noted												
		49																	
25																			

BOE @ 24.5 ft.

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod		Riser Pipe	Overburden (Linear ft.)	24.5
						T	Thin Wall Tube		Screen	Rock Cored (Linear ft.)	0
						U	Undisturbed Sample		Filter Sand	Number of Samples	2
						S	Split Spoon Sample		Cuttings		
						G	Geoprobe		Grout		
									Concrete		
									Bentonite Seal		
NA										BORING NO.	GP-07
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High						
		Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High						
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.											
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.											

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond, IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/17/2007
DRILLER Jeff Stone **DATE FINISHED** 7/17/2007

Elevation		ft. Datum		Boring Location		Hammer Type		Drilling Mud		Casing Advance	
Item	Casing	Sampler	Core Barrel	Rig Make & Model						Type Method	Depth
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head		<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth			
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch		<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push			
Hammer Weight (lb.)				<input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit		<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None				
Hammer Fall (in.)				<input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head		Drilling Notes:					

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA	2.0	ML	Loose, Brown, SILT (ML) w/ trace Gravel (MPS = .5 in.), Moist (from rain), No Odor Noted												
	READINGS				3.0	ML	Crushed Brick and Mortar												
	TAKEN DUE TO RAIN	34					Soft, Black, SILT (ML) w/ Coke, Clinker, and OLM												
5							BOE @ 5 ft.												
10																			
15																			
20																			
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed 4 in. East of Borehole

Water Level Data			Sample ID			Well Diagram			Summary											
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water															
NA															BORING NO. GP-08					

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High
 *NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO.
GP-09

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/17/2007
DRILLER	Jeff Stone	DATE FINISHED	7/17/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Drilling Mud
Hammer Weight (lb.)				Casing Advance
Hammer Fall (in.)				Type Method Depth
				Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA	2.0	ML	Loose, Brown, SILT (ML) w/ trace Gravel (MPS = .25 in.), Moist (from rain), No Odor Noted												
	READINGS				4.0	SW	Loose, Light Brown to Grey, SAND (SW), Moist, Slight MGP Like Odor												
	TAKEN DUE TO RAIN	41				ML	Soft, Brown to Black, SILT (ML) w/ trace Organics, Moist, Slight MGP Like Odor												
5		S2			6.0	SP	Medium Dense, Light Grey to Grey, SAND (SP) w/ White Shell Fragments, WET, Slight MGP Like Odor												
		49																	
10		S3					Similar to Above												
		56																	
15		S4					Similar to Above												
		59																	
20							Note: Cutting Shoe for Rods contained Grey SAND w/ OLM												
							BOE @ 20 ft.												
25																			

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. East of Borehole

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod		Riser Pipe	Overburden (Linear ft.) 20			
						T	Thin Wall Tube		Screen	Rock Cored (Linear ft.) 0			
						U	Undisturbed Sample		Filter Sand	Number of Samples 0			
						S	Split Spoon Sample		Cuttings				
						G	Geoprobe		Grout				
									Concrete				
									Bentonite Seal				
NA											BORING NO. GP-09		
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High								
		Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High								
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.													
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.													

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PROJECT <u>Hammond Former MGP</u>	H&A FILE NO. <u>33547-201</u>
LOCATION <u>Hammond, IN</u>	PROJECT MGR. <u>S. Kelley</u>
CLIENT <u>NIPSCO</u>	FIELD REP. <u>J. Austgen</u>
CONTRACTOR <u>Boart Longyear</u>	DATE STARTED <u>7/17/2007</u>
DRILLER <u>Jeff Stone</u>	DATE FINISHED <u>7/17/2007</u>

Elevation				Datum				Boring Location			
Item	Casing	Sampler	Core Barrel	Rig Make & Model				Hammer Type	Drilling Mud	Casing Advance	
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth		
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push		
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None			
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:				

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA	2.0	ML	Loose, Brown, SILT (ML) w/ Gravel (MPS = 1 in.), Moist (from rain), No Odor Noted												
	READINGS					SW	Light Brown to Brown, Well Graded SAND (SW) w/ Brick Fragments and Gravel, Moist, Slight MGP Like Odor												
	TAKEN DUE	39																	
	TO RAIN		1 5.5-6.2			ML	Soft, Brown to Black, SILT (ML) w/ trace Sand and Gravel, Moist, Slight MGP Like Odor												
5		S2			5.5	SP	Medium Dense, Light Grey to Grey, SAND (SP) w/ White Shell Fragments, WET w/ OLM from 5.5-6.2 ft., MGP Like Odor												
10		40					BOE @ 10 ft.												
15																			
20																			
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed 4 in. North of Borehole

Water Level Data				Depth In feet to:			Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	T	U	S	G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Overburden (Linear ft.)
						Open End Rod	Thin Wall Tube	Undisturbed Sample	Spilt Spoon Sample	Geoprobe	Riser Pipe	Screen	Filter Sand	0
											<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rock Cored (Linear ft.)
											Concrete	Bentonite Seal		Number of Samples
														1
NA												BORING NO.	GP-10	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond, IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/17/2007
DRILLER Jeff Stone **DATE FINISHED** 7/17/2007

Elevation		ft. Datum		Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model	
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>
				<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety
				<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut
				<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic
				<input type="checkbox"/> Cutting Head	<input type="checkbox"/> None
Drilling Notes:					

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA	1.0	ML	Loose, Light Brown, SILT (ML) w/ Gravel (MPS = .75 in.) and trace Organics, Moist (from rain), No Odor Noted												
	READINGS				2.5	SW	Loose, Light Brown, Well Graded SAND (SW), Moist, No Odor Noted												
	TAKEN DUE TO RAIN	50	1 2.5-5			SW	Dark Grey to Black, Well Graded SAND (SW) w/ OLM, Saturated, Strong MGP Like Odor												
5							BOE @ 5 ft.												
10																			
15																			
20																			
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed 4 in. West of Borehole

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Overburden (Linear ft.)	5
						T	Thin Wall Tube	<input type="checkbox"/>	Screen	Rock Cored (Linear ft.)	0
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Number of Samples	1
						S	Split Spoon Sample	<input checked="" type="checkbox"/>	Cuttings	BORING NO. GP-11	
						G	Geoprobe	<input type="checkbox"/>	Grout		
								<input checked="" type="checkbox"/>	Concrete		
								<input checked="" type="checkbox"/>	Bentonite Seal		
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High		
			Dry Strength: N - None L - Low M - Medium H - High V - Very High			*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.					
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.											

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TEST BORING REPORT

BORING NO.
GP-12

Page 1 of 1

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/17/2007
DRILLER	Jeff Stone	DATE FINISHED	7/17/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Drilling Mud
Hammer Weight (lb.)				Casing Advance
Hammer Fall (in.)				Type Method Depth
				Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA	1.3	ML	Loose, Brown, SILT (ML) w/ Gravel (MPS = 1 in.), Moist (from rain), No Odor Noted												
	READINGS				2.5	SW	Loose, Light Brown, Well Graded SAND (SW) w/ Gravel (MPS=1.25 in.), Moist, No Odor Noted												
	TAKEN DUE	42				SW	Loose, Grey, Well Graded SAND (SW), Moist, No Odor Noted												
	TO RAIN																		
5		S2			5.5	SP	Medium Dense, Dark Grey, Poorly Graded SAND (SP), WET, No Odor Noted												
		49																	
10		S3					Similar to Above												
		59																	
15		S4					Similar to Above												
		60	1																
20		S5	19.5-20.5		20.0	CL	Stiff to Hard, Grey, Lean CLAY (CL), Moist, No Odor Noted												
		53																	
25							BOE @ 25 ft.												

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed 4 in. West of Borehole

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Overburden (Linear ft.)	25
						T	Thin Wall Tube	<input type="checkbox"/>	Screen	Rock Cored (Linear ft.)	0
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Number of Samples	1
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings		
						G	Geoprobe	<input type="checkbox"/>	Grout		
								<input type="checkbox"/>	Concrete		
								<input type="checkbox"/>	Bentonite Seal		
NA										BORING NO.	GP-12

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO.

GP-13

Page 1 of

PROJECT Hammond Former MGP
 LOCATION Hammond, IN
 CLIENT NIPSCO
 CONTRACTOR Boart Longyear
 DRILLER Jeff Stone

H&A FILE NO. 33547-201
 PROJECT MGR. S. Kelley
 FIELD REP. J. Austgen
 DATE STARTED 7/17/2007
 DATE FINISHED 7/17/2007

Elevation	ft	Datum	Boring Location		
Item	Casing	Sampler	Core Barrel	Rig Make & Model	
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> ATV <input type="checkbox"/> Track <input type="checkbox"/> Skid	<input type="checkbox"/> Tripod <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Air Track <input type="checkbox"/> Skid
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic
Hammer Weight (lb.)					<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None
Hammer Fall (in.)					Drilling Notes:

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA	0.5	ML	Loose, Brown, SILT (ML) w/ Organics, Moist (from rain), No Odor Noted												
	READINGS				1.0		Crushed Concrete												
	TAKEN DUE	40			2.5	SW	Loose, Light Brown, Fine Well Graded SAND (SW), Moist, No Odor Noted												
	TO RAIN					SP	Fine, Grey to Black, Poorly Graded SAND (SP), WET w/ OLM, Strong MGP Like Odor												
5							BOE @ 5 ft.												
10																			
15																			
20																			
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed 4 in. West of Borehole

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod		Riser Pipe	Overburden (Linear ft.)	5
						T	Thin Wall Tube		Screen	Rock Cored (Linear ft.)	0
						U	Undisturbed Sample		Filter Sand	Number of Samples	0
						S	Split Spoon Sample		Cuttings		
						G	Geoprobe		Grout		
									Concrete		
									Bentonite Seal		
NA										BORING NO.	GP-13

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO.

GP-14

Page 1 of

PROJECT: Hammond Former MGP
 LOCATION: Hammond, IN
 CLIENT: NIPSCO
 CONTRACTOR: Boart Longyear
 DRILLER: Jeff Stone

H&A FILE NO.: 33547-201
 PROJECT MGR.: S. Kelley
 FIELD REP.: J. Austgen
 DATE STARTED: 7/18/2007
 DATE FINISHED: 7/18/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Hammer Type: <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None
Hammer Weight (lb.)				Drilling Notes:
Hammer Fall (in.)				

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	NO PID	S1		NA		ML	Loose, Light to Dark Brown, SILT (ML) w/ Brick Fragment and Gravel (MPS=1 in.), Moist (from rain), Slight MGP Like Odor Crushed Concrete												
	READINGS				3.5	SW	Medium Dense, Dark Brown, SAND (SW), w/ Trace Gravel (MPS=.5 in.), Moist, Strong MGP Like Odor												
	TAKEN DUE	31			4.5	SW	Similar to Above w/ OLM from 4.5-7.5 ft., Saturated												
	TO RAIN																		
5		S2	1 5-7'																
		49			7.5	SP	Medium Dense, Grey, Poorly Graded SAND (SP), WET, MGP Like Odor												
10							BOE @ 10 ft.												
15																			
20																			
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed 4 in. West of Borehole

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod		Riser Pipe	Overburden (Linear ft.) 10		
						T	Thin Wall Tube		Screen	Rock Cored (Linear ft.) 0		
						U	Undisturbed Sample		Cuttings	Number of Samples 1		
						S	Split Spoon Sample		Grout			
						G	Geoprobe		Concrete			
									Bentonite Seal			
			NA								BORING NO. GP-14	

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO.
GP-15

Page 1 of 1

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/18/2007
DRILLER	Jeff Stone	DATE FINISHED	7/18/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Hammer Type <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None
Hammer Weight (lb.)				Drilling Mud <input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None
Hammer Fall (in.)				Casing Advance <input type="checkbox"/> Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	NO PID	S1	1 3.5-4.5	NA	3.8	SW	Loose, Dark Brown, SAND (SW) w/ Coke and Gravel (MPS= .2 in.), Moist, Slight MGP Like Odor, Trace OLM from 3.7 - 3.8 ft.											
	READINGS																	
	TAKEN DUE	23				OL/ OH	Soft, Brown to Black, ORGANICS and PEAT (OL/OH) w/ Wood Fibers, Moist											
	TO RAIN				5.0													
5		S2				SP	Medium Dense, Brown to Grey, Poorly Graded Fine SAND (SP) w/ Wood Fibers and Peat from 5.5-5.8 ft. and 6.1-6.3 ft., Moist											
		44			6.8	SP	Medium Dense, Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET @ 7 ft., No Odor Noted											
10		S3					Similar to 6.8-10 ft Interval											
		58																
15		S4					Similar to 6.8-10 ft Interval											
		57																
20		S5	2 19.5 -20.5		20.0	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted											
		60																
25							BOE @ 25 ft.											

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed Near Borehole

Water Level Data			Sample ID			Well Diagram			Summary											
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.) _____ 25	Rock Cored (Linear ft.) _____ 0	Number of Samples _____ 2
NA												BORING NO. GP-15								
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High								
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.																				
NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																				

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond, IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/18/2007
DRILLER Jeff Stone **DATE FINISHED** 7/18/2007

Elevation	ft.	Datum	Boring Location				
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety <input type="checkbox"/> Bentonite	<input type="checkbox"/> Polymer	Type Method Depth
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> None	Direct Push
Hammer Weight (lb.)				<input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic		
Hammer Fall (in.)				<input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head	Drilling Notes:		

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	NO PID READINGS TAKEN DUE TO RAIN	S1 40		NA	1.5	ML	Loose, Dark Brown, SILT (ML) w/ Brick and Gravel (MPS=1 in.), Moist, No Odor Noted											
					2.5	SW	Loose, Orange Brown, SAND (SW) w/ Brick (MPS=1 in.), Moist, Slight MGP Like Odor											
						SW	Mededium Dense, Light Brown, SAND (SW), Moist, No Odor Noted											
					4.5	SM	Dense, Dark Grey to Black, Silty SAND (SM), Slight Oil Like Sheen, Slight MGP Like Odor											
5		S2 55	1 5-6'		5.0	SP	Medium Dense, Dark Grey to Black, Poorly Graded SAND (SP), OLM from 5-6 ft., Strong MGP Like Odor, WET w/ Sheen to 10 ft.											
10							BOE @ 10 ft.											
15																		
20																		
25																		

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data				Sample ID			Well Diagram			Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	Overburden (Linear ft.)	10
			Bottom of Casing	Bottom of Hole	Water						<input type="checkbox"/> Screen		Rock Cored (Linear ft.)
NA						<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Seal	Number of Samples	1	
											BORING NO.	GP-16	
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High					
		Toughness: L - Low M - Medium H - High			*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.								
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.													

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TEST BORING REPORT

BORING NO.

GP-17

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/18/2007
DRILLER	Jeff Stone	DATE FINISHED	7/18/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Hammer Type <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None
Hammer Weight (lb.)				Drilling Mud <input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None
Hammer Fall (in.)				Casing Advance <input type="checkbox"/> Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	NO PID	S1		NA	1.5	ML	Loose, Light Brown, SILT (ML) w/ Brick and Gravel (MPS = .8 in.), Moist (RAIN), No Odor Noted											
	READINGS				2.5		Orange-Red, Brick w/ Sand, Slight MGP Like Odor											
	TAKEN DUE	34			4.5	SW	Medium Dense, Light Brown, SAND (SW), Moist, No Odor Noted											
	TO RAIN				5.0	SP	Medium Dense, Dark Grey, SAND (SP), WET w/ OLM, Strong MGP Like Odor											
5							BOE @ 5 ft.											
10																		
15																		
20																		
25																		

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data				Sample ID			Well Diagram			Summary				
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	Overburden (Linear ft.)
			Bottom of Casing	Bottom of Hole	Water						<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input checked="" type="checkbox"/> Concrete	
NA												Number of Samples	5	
												BORING NO.	GP-17	
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High			
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.														

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TEST BORING REPORT

BORING NO.

GP-18

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/18/2007
DRILLER	Jeff Stone	DATE FINISHED	7/18/2007

Elevation		ft. Datum		Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model	
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/> Cutting Head
				Hammer Type	Drilling Mud
				<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite
				<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer
				<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None
Drilling Notes:					

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	NO PID	S1		NA		SM	Loose, Light Brown, SAND (SM) w/ Silt, Organics, Brick, Gravel (MPS=1.1 in.), Moist, No Odor Noted											
	READINGS				2.5	SW	Medium Dense, Light Grey, Fine Well Graded SAND (SW), Moist, No											
	TAKEN DUE	39			4.5	SP	Medium Dense, Light Brown, Fine Poorly Graded SAND (SP), Moist, No											
	TO RAIN		1 5.0-6.0		5.0	ML	Dense, Dark Brown, SILT (ML) w/ Gravel (MPS=.9 in.), Organics, and											
5		S2			6.0	SP	Medium Dense, Dark Grey, Fine Poorly Graded SAND (SP) w/ Trace											
		42					White Shell Fragments, WET, No Odor Noted											
10		S3					Similar to 6-10 ft. Interval											
		58																
15		S4					Similar to 6-10 ft. Interval											
		56																
20		S5	2 19.5-20.5		20.0	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted											
		53																
25							BOE @ 25 ft.											

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed Near Borehole

Water Level Data			Sample ID			Well Diagram			Summary				
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	Overburden (Linear ft.)	25
			Bottom of Casing	Bottom of Hole	Water						<input type="checkbox"/> Screen		Rock Cored (Linear ft.)
NA						<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Seal	Number of Samples	2	
											BORING NO.	GP-18	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond, IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/18/2007
DRILLER Jeff Stone **DATE FINISHED** 7/18/2007

Elevation	ft.	Datum	Boring Location					
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance	
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Skid <input type="checkbox"/>	<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None	Type Method Depth Direct Push
Inside Diameter (in.)	2	1.75						
Hammer Weight (lb.)								
Hammer Fall (in.)								

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	NO PID READINGS TAKEN DUE TO RAIN	S1	1 5.0-6.0	NA	5.0	ML	Loose, Brown, Fine Sandy SILT (ML) w/ Organics, Gravel (MPS = .75 in.), Moist, No Odor Noted											
5		S2	2 6.0-7.0 3 7.0-8.0 4 8.0-9.0 50			SP	Medium Dense, Fine Poorly Graded SAND (SP), WET w/ OLM, Strong MGP Like Odor Similar to 5-8 ft. Interval w/ little to no OLM below 8.5 ft.											
10							BOE @ 10 ft.											
15																		
20																		
25																		

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data			Sample ID			Well Diagram			Summary				
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input checked="" type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	10
			Bottom of Casing	Bottom of Hole	Water							Rock Cored (Linear ft.)	0
NA									BORING NO. GP-19				
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High					
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.													
NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.													

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TEST BORING REPORT

BORING NO.

GP-20

Page 1 of

PROJECT Hammond Former MGP
 LOCATION Hammond, IN
 CLIENT NIPSCO
 CONTRACTOR Boart Longyear
 DRILLER Jeff Stone

H&A FILE NO. 33547-201
 PROJECT MGR. S. Kelley
 FIELD REP. J. Austgen
 DATE STARTED 7/19/2007
 DATE FINISHED 7/19/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Skid <input type="checkbox"/>
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head
Hammer Weight (lb.)				<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic
Hammer Fall (in.)				<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	0.0	S1		NA		ML	Loose, Dark Brown, SILT (ML) w/ Trace Light Brown Sand and Gravel (MPS = .6 in.), Moist, No Odor Noted												
	0.0	43			2.5	SW	Medium Dense, Light Brown, Fine Well Graded SAND (SW), Slight Gasoline Like Odor, WET												
	20.6		1		4.0	SP	Medium Dense, Light Grey, Fine Poorly Graded SAND (SP), Strong Gasoline Like Odor, WET												
5	205		4.0-5.0			SP	Similar to 4-5 ft. Interval w/ Sheen from 5-6 ft.												
	175	S2	5.0-6.0			SP	SAND is Dark Grey to Black from 6-9 ft., Slight MGP Like Odor below 6.5 ft.												
	0.0	58					SAND is Light Grey from 9-10 ft.												
10	0.0	S3				SP	Similar to 9-10 ft. Interval												
	0.0	60																	
15	0.0	S4				SP	Similar to 9-10 ft. Interval												
	0.0	55																	
20	0.0		19.0-20.0		20.0	CL	Stiff to Hard, Lean CLAY (CL) in shoe of Sample Rods, Moist, No Odor Noted												
		S5																	
		No Recovery																	
25																			

BOE @ 25 ft.

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data			Sample ID			Well Diagram			Summary				
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	Overburden (Linear ft.)	25
			Bottom of Casing	Bottom of Hole	Water						<input type="checkbox"/> Screen		Rock Cored (Linear ft.)
						<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Seal	Number of Samples	3	
NA											BORING NO.	GP-20	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond, IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/19/2007
DRILLER Jeff Stone **DATE FINISHED** 7/19/2007

Elevation	ft.	Datum	Boring Location				
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None		Type Method Depth
Inside Diameter (in.)	2	1.75					Direct Push
Hammer Weight (lb.)							
Hammer Fall (in.)							

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	0.0	S1		NA		SM	Dark Brown, Fine Sandy SILT (SM), Moist, No Odor Noted												
					1.0	SW	Light Brown, Fine Well Graded SAND (SW), Moist, No Odor Noted												
	0.0	49			2.1	SP	Light to Dark Grey, Poorly Graded SAND (SP), Moist, Slight MGP Like Odor												
					3.1	PT	Dark Brown to Black, PEAT (PT) w/ Trace Grey Fine Sand and Wood Fibers, Sand Volume Increasing w/ Depth, Moist, Slight MGP Like Odor												
5	0.0	S2			6.0	SP	Light to Dark Grey, Poorly Graded Fine SAND (SP) w/ Trace White Shell Fragments, WET, No Odor Noted												
		50																	
10	0.0	S3				SP	Similar to 6-10 ft. Interval												
		60																	
15	0.0	S4				SP	Similar to 6-10 ft. Interval												
		52	1		18.5	GW	Loose, Grey and Brown, Sandy Well Graded GRAVEL (GW), WET, Slight MGP Like Odor												
			18.25-19.25		19.0	CL	Hard, Grey, Lean CLAY (CL) w/ Trace Gravel (MPS= .2 in.), Moist, No Odor Noted												
20	0.0						BOE @ 20 ft.												
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data			Sample ID			Well Diagram			Summary					
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water									
NA									BORING NO. GP-21					

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.**
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/19/2007
DRILLER	Jeff Stone	DATE FINISHED	7/19/2007

Elevation	ft.	Datum	Boring Location				
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Skid <input type="checkbox"/>	<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head	<input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None	Type Method Depth
Inside Diameter (in.)	2	1.75			<input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic		Direct Push
Hammer Weight (lb.)					Drilling Notes:		
Hammer Fall (in.)							

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description <small>(density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)</small>	Gravel			Sand			Field Test			
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0				NA		ML	Loose, Dark Brown, SILT (ML) w/ Gravel (MPS=.3 in.), Moist, No Odor Noted										
	0.0	S1			1.3	SW	Loose, Red Brown, Well Graded Fine SAND (SW), Slight MGP Like Odor, Wet @ 3 ft., Black Staining w/ OLM from 3-4ft.										
	201	47			4.0	SP	Medium Dense, Dark Grey to Black, Poorly Graded SAND (SP), WET w/ Oil Like Sheen from 5-6 ft., Strong Gasoline Like Odor Note: Black Staining from 6-6.5 ft. w/ Gasoline and MGP Like Odor										
5																	
	0.0	S2	1 5-6.5		6.5	SP	Medium Dense, Light Grey, Poorly Graded SAND (SP), WET, No Odor Noted										
		55															
10																	
	0.0	S3				SP	Similar to 6.5-10 ft. Interval										
		58															
15																	
	0.0	S4				SP	Similar to 6.5-10 ft. Interval										
		60															
20																	
	0.0	S5	2 20-21		20.5	CL	Hard, Grey, Lean CLAY (CL), Moist, No Odor Noted										
		59															
25																	
	0.0																
BOE @ 25 ft.																	

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed Near Borehole

Water Level Data				Sample ID			Well Diagram			Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	Overburden (Linear ft.)	
			Bottom of Casing	Bottom of Hole	Water						<input type="checkbox"/> Screen		Rock Cored (Linear ft.)
										<input type="checkbox"/> Filter Sand	Number of Samples	2	
										<input checked="" type="checkbox"/> Cuttings	BORING NO. GP-22		
										<input type="checkbox"/> Grout			
										<input checked="" type="checkbox"/> Concrete			
										<input type="checkbox"/> Bentonite Seal			
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High		
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.													
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.													

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TEST BORING REPORT

BORING NO.
GP-23

Page 1 of

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/19/2007
DRILLER	Jeff Stone	DATE FINISHED	7/19/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Hammer Type <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None
Hammer Weight (lb.)				Drilling Mud <input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None
Hammer Fall (in.)				Casing Advance Type Method Depth Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test								
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength									
0		S1		NA	0.5	ML	Loose, Dark Brown, Sandy SILT (ML), Moist, No Odor Noted																			
					1.5	SW	Loose, Light Brown, Fine Well Graded SAND (SW), Moist, No Odor Noted																			
					3.5	SP	Medium Dense, Gray to Black, Poorly Graded SAND (SP), Moist, Gasoline Like Odor																			
		41			4.5	PT	Dark Brown to Black, PEAT (PT) w/ Sand, wood Fibers, Moist, Gasoline and MPG Like Odors																			
5		S2	1 5-6.5			SP	Medium Dense, Grey to Black, Poorly Graded SAND (SP), WET @ 5 ft. w/ Heavy Sheen from 4.5-6.5 ft.																			
		58																								
10							BOE @ 10 ft.																			
15																										
20																										
25																										

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed Near Borehole

Water Level Data						Sample ID		Well Diagram				Summary											
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input checked="" type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)		Rock Cored (Linear ft.)		Number of Samples	
			Bottom of Casing	Bottom of Hole	Water													_____	_____	_____	_____	_____	_____
NA												BORING NO. GP-23											
Field Tests		Dilatancy: R - Rapid S - Slow N - None						Plasticity: N - Nonplastic L - Low M - Medium H - High															
		Toughness: L - Low M - Medium H - High						Dry Strength: N - None L - Low M - Medium H - High V - Very High															
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																							

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TEST BORING REPORT

BORING NO.

GP-24

Page 1 of

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/19/2007
DRILLER	Jeff Stone	DATE FINISHED	7/19/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Hammer Type <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None
Hammer Weight (lb.)				Drilling Mud <input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None
Hammer Fall (in.)				Casing Advance <input type="checkbox"/> Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (In.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength						
0	0.0	S1		NA			Concrete																
					1.5	SW	Fine, Light Brown, Well Graded SAND (SW), WET @ 3.5 ft., No Odor Noted																
5	0.0	S2			5.5	SP	Medium Dense, Dark Grey, Poorly Graded SAND (SP), WET, No Odor Noted																
10	0.0	S3				SP	Similar to 5.5-10 ft. Interval																
15	0.0	S4				SP	Similar to 5.5-10 ft. Interval w/ Trace White Shell Fragments																
20	0.0	S5			20.0	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted																
25	0.0	S8																					

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data					Sample ID			Well Diagram			Summary					
Date	Time	Elapsed Time (hr.)	Depth In feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input checked="" type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples	BORING NO.	GP-24
			Bottom of Casing	Bottom of Hole	Water											
Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High																
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond , IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/19/2007
DRILLER Jeff Stone **DATE FINISHED** 7/19/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Flg Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> ATV <input type="checkbox"/> Track <input type="checkbox"/> Skid
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> Tripod <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Air Track <input type="checkbox"/> Skid
Hammer Weight (lb.)				<input type="checkbox"/> Cat-Head <input type="checkbox"/> Winch <input type="checkbox"/> Roller Bit <input type="checkbox"/> Cutting Head
Hammer Fall (in.)				Hammer Type: <input type="checkbox"/> Safety <input type="checkbox"/> Doughnut <input checked="" type="checkbox"/> Automatic Drilling Mud: <input type="checkbox"/> Bentonite <input type="checkbox"/> Polymer <input type="checkbox"/> None Casing Advance: <input type="checkbox"/> Direct Push

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel			Sand			Field Test			
								% Coarse	% Fine	% Coarse	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity
0		S1		NA		ML	Loose, Dark Brown, SILT (ML) w/ Gravel (MPS=.5 in.), Moist, No Odor Noted										
					1.5	SW	Medium Dense, Light Brown, Well Graded SAND (SW) w/ Gravel (MPS=.75"), Moist, No Odor Noted										
		39			2.5	SW	Light Brown to Brown, Well Graded SAND (SW), Moist, No Odor Noted, WET @ 4 ft.										
5	0.0	S2			5.5	SP	Medium Dense, Grey, Poorly Graded SAND (SP), WET, No Odor Noted										
	0.0	60															
10	0.0	S3				SP	Similar to 5.5-10 ft. Interval										
	0.0	60															
15	0.0	S4				SP	Similar to 5.5-10 ft. Interval										
	0.0	60	1 19-20				Note: Black Staining w/ Trace OLM @ 19.7 ft., Strong MGP Like Odor										
20	0.0	S5			20.0	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted										
		No Recovery					Note: No recovery from 20-22.5 ft. Geological Interpretation based on material recovered from cutting shoe of rods BOE @ 22.5 ft.										
25																	
							Notes: Borehole Backfilled to Surface w/ Bentonite Chips Stake Placed Near Borehole										

Water Level Data				Sample ID			Well Diagram			Summary				
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water									
NA														

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST BORING REPORT

BORING NO.

GP-26

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PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/20/2007
DRILLER	Jeff Stone	DATE FINISHED	7/20/2007

Elevation	ft.	Datum	Boring Location	
Item	Casing	Sampler	Core Barrel	Rig Make & Model
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head <input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch <input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit <input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head
Inside Diameter (in.)	2	1.75		Hammer Type <input type="checkbox"/> Safety <input type="checkbox"/> Bentonite <input type="checkbox"/> Doughnut <input type="checkbox"/> Polymer <input checked="" type="checkbox"/> Automatic <input type="checkbox"/> None
Hammer Weight (lb.)				Drilling Notes:
Hammer Fall (in.)				

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test					
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	0.0	S1		NA	1.0	ML	Loose, Light Brown, SILT (ML) w/ Light Brown Sand and Gravel (MPS = 25 in.), Moist, No Odor Noted											
					2.0	SW	Light Brown, Fine SAND (SW), Moist, No Odor Noted											
	0.0					PT	Firm, Dark Brown to Black, PEAT (PT) w/ Trace Sand and Wood Fibers, Moist, Slight Gasoline Like Odor @ 3.5 ft.											
5	10.8	37	1 4.5-6		4.5	SP	Medium Dense, Poorly Graded SAND (SP), WET, Strong Gasoline Like Odor from 4.5-6.0 ft.											
	20.2	S2																
	0.0	54																
10	0.0	S3				SP	Similar to 4.5-10 ft. Interval w/ No Odor Noted and Containing Trace White Shell Fragments											
	0.0	54																
15	0.0	S4				SP	Similar to 10-15 ft. Interval											
	0.0	60	2 19-20.5															
20	0.0	S5			19.8	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted											
	0.0	60																
25							BOE @ 25 ft.											

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed Near Borehole

Water Level Data			Sample ID			Well Diagram			Summary					
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water									
NA									BORING NO. GP-26					

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.



TEST BORING REPORT

BORING NO.
GP-27

Page 1 of

PROJECT: Hammond Former MGP
 LOCATION: Hammond, IN
 CLIENT: NIPSCO
 CONTRACTOR: Boart Longyear
 DRILLER: Jeff Stone

H&A FILE NO.: 33547-201
 PROJECT MGR.: S. Kelley
 FIELD REP.: J. Austgen
 DATE STARTED: 7/20/2007
 DATE FINISHED: 7/20/2007

Elevation		ft. Datum		Boring Location		Hammer Type		Drilling Mud		Casing Advance	
Item	Casing	Sampler	Core Barrel	Rig Make & Model		Hammer Type		Drilling Mud		Casing Advance	
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth		
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push		
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None			
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:				

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Field Test							
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0		S1		NA	0.5	ML	Dark Brown, Fine SILT (ML) w/ Gravel (MPS=.5 in.), Moist, No Odor Noted												
	0.0					SW	Light Brown, Fine Well Graded SAND (SW), Moist, No Odor Noted												
	0.0																		
	0.0	34			4.0	SP	Medium Dense, Light Grey to Grey, SAND (SP), WET, No Odor Noted from 4-5 ft. Similar to 4-5 ft. Interval W/ Very Slight Gasoline Like Odor from 5-6 ft.												
5		S2	1 5.0-6.0																
	0.0	49																	
	0.0																		
10		S3				SP	Similar to 4-10 ft. Interval w/ White Shell Fragments and No Odor Noted												
	0.0	55																	
	0.0																		
15		S4				SP	Similar to 10-15 ft. Interval												
	0.0	59	2 19.5-21																
	0.0																		
20		S5			20.3	CL	Stiff to Hard, Grey, Lean CLAY (CL), Moist, No Odor Noted												
	0.0	46																	
							BOE @ 24 ft.												

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data					Sample ID			Well Diagram			Summary									
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Overburden (Linear ft.)	Rock Cored (Linear ft.)	Number of Samples
			Bottom of Casing	Bottom of Hole	Water															
			NA																	

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High
 *NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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PROJECT Hammond Former MGP **H&A FILE NO.** 33547-201
LOCATION Hammond, IN **PROJECT MGR.** S. Kelley
CLIENT NIPSCO **FIELD REP.** J. Austgen
CONTRACTOR Boart Longyear **DATE STARTED** 7/20/2007
DRILLER Jeff Stone **DATE FINISHED** 7/20/2007

Elevation		ft. Datum		Boring Location			
Item	Casing	Sampler	Core Barrel	Rig Make & Model	Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck <input type="checkbox"/> Tripod <input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety <input type="checkbox"/> Bentonite	<input type="checkbox"/> Polymer	Type Method Depth
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV <input checked="" type="checkbox"/> Geoprobe <input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut		Direct Push
Hammer Weight (lb.)				<input type="checkbox"/> Track <input type="checkbox"/> Air Track <input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None	
Hammer Fall (in.)				<input type="checkbox"/> Skid <input type="checkbox"/> Cutting Head	Drilling Notes:		

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0																			
	0.0	S1		NA	0.5	ML	Loose, Brown, SILT (ML) w/ Trace Sand and Gravel (MPS=.8 in.), Moist, No Odor Noted												
					1.0	SW	Light Brown, Well Graded SAND (SW), Moist, No Odor Noted												
						SP	Dark Brown to Black, Poorly Graded SAND (SP) w/ Gravel (MPS=.6 in.), Moist, MGP Like Odor												
		39	1		4.0	SP	Medium Dense, Dark Grey to Black, SAND (SP), WET w/ OLM, Strong MGP Like Odor												
5	0.0		4.0-5.0				Note: OLM from 4-9.75 ft.												
	0.0	S2	2																
			5.0-6.0																
			3																
			6.0-7.0																
			4																
			7.0-8.0																
			5																
	0.0	S5	8.0-9.0																
			6																
			9.0-10.0																
10	0.0	S3				SP	Similar to 4-10 ft. Interval w/ Less to No OLM w/ Depth												
	0.0	S8																	
15	0.0	S4				SP	Similar to 10-15 ft. Interval w/ No Sheen and No Odor Noted Below 15 ft.												
	0.0	S6																	
			7																
			19-20		19.5	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted												
20							BOE @ 20 ft.												
25																			

Notes:
 Borehole Backfilled to Surface w/ Bentonite Chips
 Stake Placed Near Borehole

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	□ Riser Pipe	Overburden (Linear ft.)	20
			Bottom of Casing	Bottom of Hole	Water				
						U Undisturbed Sample	▤ Filter Sand	Number of Samples	7
						S Split Spoon Sample	▥ Cuttings		
						G Geoprobe	▧ Grout		
							▨ Concrete		
							▩ Bentonite Seal		
							BORING NO. GP-28		
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High				
		Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High				
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.									
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.									

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TEST BORING REPORT

BORING NO.

GP-29

Page 1 of

PROJECT	Hammond Former MGP	H&A FILE NO.	33547-201
LOCATION	Hammond, IN	PROJECT MGR.	S. Kelley
CLIENT	NIPSCO	FIELD REP.	J. Austgen
CONTRACTOR	Boart Longyear	DATE STARTED	7/20/2007
DRILLER	Jeff Stone	DATE FINISHED	7/20/2007

Elevation	ft.	Datum	Boring Location						
Item	Casing	Sampler	Core Barrel	Rig Make & Model			Hammer Type	Drilling Mud	Casing Advance
Type				<input checked="" type="checkbox"/> Truck	<input type="checkbox"/> Tripod	<input type="checkbox"/> Cat-Head	<input type="checkbox"/> Safety	<input type="checkbox"/> Bentonite	Type Method Depth
Inside Diameter (in.)	2	1.75		<input type="checkbox"/> ATV	<input checked="" type="checkbox"/> Geoprobe	<input type="checkbox"/> Winch	<input type="checkbox"/> Doughnut	<input type="checkbox"/> Polymer	Direct Push
Hammer Weight (lb.)				<input type="checkbox"/> Track	<input type="checkbox"/> Air Track	<input type="checkbox"/> Roller Bit	<input checked="" type="checkbox"/> Automatic	<input type="checkbox"/> None	
Hammer Fall (in.)				<input type="checkbox"/> Skid	<input type="checkbox"/>	<input type="checkbox"/> Cutting Head	Drilling Notes:		

Depth (ft.)	PID (ppm)	Sample No. & Recovery (in.)	Sample Depth (ft.)	Well Diagram	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test						
								% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	0.0	S1		NA	1.0	ML	SILT (ML) w/ Pink Brick, Wood Fibers and Fine Dark Brown Sand, Moist, No Odor Noted												
					2.0	SP	Dark Brown, SAND (SP) w/ Coke, Moist, No Odor Noted												
		33				GP	Red Brown, GRAVEL (GP) (MPS=.25 in.) w/ Sand, WET @ 4.5 ft., No Odor Noted												
5	0.0				5.0	OL	Dark Brown to Black, SILT (OL) w/ Organics and Wood Fibers, Moist, No Odor Noted												
	0.0	S2																	
	0.0	36																	
10		S3	No Recovery																
15		S4				SP	Very Soft, Grey, SAND (SP), WET w/ Trace White Shell Fragments, No Odor Noted Note: Depth to Top of Sand Not Determined Due to Lack of Sample Recovery												
20	0.0	S5			22.0	CL	Stiff, Grey, Lean CLAY (CL), Moist, No Odor Noted												
	0.0	40																	
25							BOE @ 25 ft.												

Notes:
Borehole Backfilled to Surface w/ Bentonite Chips
Stake Placed Near Borehole

Water Level Data				Sample ID			Well Diagram			Summary													
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	<input type="checkbox"/> Filter Sand	<input checked="" type="checkbox"/> Cuttings	<input type="checkbox"/> Grout	<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Seal	Overburden (Linear ft.)	25	Rock Cored (Linear ft.)	0	Number of Samples	1
			Bottom of Casing	Bottom of Hole	Water													BORING NO.			GP-29		

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

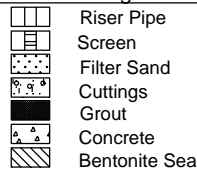
Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 15, 2008
 Finish April 15, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type: Cutting Head
Hammer Weight (lb)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 16.0 ft
				Hoist/Hammer: Automatic Hammer
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 582.7
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	0	S1	0.0	578.7 4.0	SM	Very loose brown silty SAND (SM), mps 5 mm, no structure, slight MGP odor, moist with wood and brick pieces		5	15	20	25	35					
	1	10	2.0		SM	Loose brown silty SAND (SM) with gravel, mps 20 mm, no structure, slight MGP odor, wet	5	10	15	15	20	35					
	2																
	3	S2	2.0														
	5	10	4.0														
	2																
	1																
	1	NR	4.0														
	1		6.0														
	1		6.0														
	1		8.0														
	1		10.0														
	1		12.0														
	1		14.0														
	1		16.0														
	1		18.0														
	2	S8	16.0	566.2	OL/	Very soft black ORGANIC SOIL with sand (OL/OH), mps <1 mm, no structure, slight MGP odor, with shell fragments and fibers				5	15	80	R	L	N	L	
	3	18	18.0	566.2	OH/	Similar to above				5	25	70	R	L	N	L	
	6			564.7	CL	Stiff gray lean CLAY (CL), mps <1 mm, no structure, slight MGP odor, moist							100	N	N	N	H
				18.0		-GLACIAL TILL- BOTTOM OF EXPLORATION 18.0 FT											

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Overburden (ft) 18.0 Rock Cored (ft) - Samples S8	Boring No. HA1
			Bottom of Casing	Bottom of Hole	Water				
		Not Taken							

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

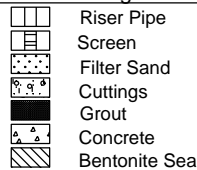
Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 15, 2008
 Finish April 15, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Bit Type: Cutting Head Drill Mud: None
Inside Diameter (in.)	4.25	1 3/8	--	Casing: HSA Spun to 14.0 ft
Hammer Weight (lb)	--	140	-	Hoist/Hammer: Automatic Hammer
Hammer Fall (in.)	--	30	-	PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 580.1
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test						
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	1	S1	0.0		SM	Very loose black silty SAND (SM), mps 10 mm, no structure, slight MGP odor, moist, with brick fragments		5	15	25	25	30						
	1	4	2.0															
	WOH			578.1		-URBAN FILL-												
	2	S2	2.0		OL/OH	Soft black ORGANIC SOIL (OL/OH), mps 5 mm, no structure, MGP odor, wet, decomposed plant matter, brick particles		5	5	5	15	70	R	L	N	L		
	2	8	4.0															
	2																	
	3																	
	1	S3	4.0		OL/OH	Very soft black ORGANIC SOIL (OL/OH), mps 1 mm, no structure, MGP odor, wet, decomposed plant matter, fibers, shell pieces				5	5	90	R	L	N	L		
	WOH	18	6.0															
	WOH	1																
	1	S4	6.0		OL/OH	Similar to above				5	5	90	R	L	N	L		
	1	22	8.0															
	WOH					-OUTWASH/MARSH DEPOSITS-												
	WOH																	
	WOR	S5	8.0		OL/OH	Similar to above except dark brown												
	WOR	24	10.0															
	WOR	1																
	WOR																	
	WOR	S6	10.0		OL/OH	Very soft dark brown ORGANIC SOIL with sand (OL/OH), mps 1 mm, no structure, slight MGP odor, with shells				5	25	70	R	L	N	L		
	WOR	24	12.0															
	WOH			568.1														
	WOR	S7	12.0		SM	Very loose dark brown silty SAND (SM), mps 1 mm, no structure, MGP odor, wet, with shells and MGP product				40	30	30						
	WOR	22	14.0															
	1			566.1		-OUTWASH-												
	1																	
	2	S8	14.0		CL	Medium stiff gray lean CLAY (CL), mps <1 mm, no structure, slight MGP odor, moist												
	3	18	16.0															
	5																	
	8																	
				564.1		BOTTOM OF EXPLORATION 16.0 FT												
				16.0														

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Overburden (ft)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water				
								16.0	-
									S8
								Boring No. HA2	

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

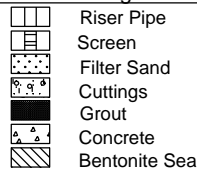
Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 16, 2008
 Finish April 16, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type: Cutting Head
Hammer Weight (lb)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 16.0 ft
				Hoist/Hammer: Winch Automatic Hammer
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 582.6
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test				
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	3 4 3 3	S1 12	0.0 2.0	578.6 4.0	SM	Loose dark brown silty SAND (SM), mps 10 mm, no structure, no odor, moist -URBAN FILL-		5	25	20	20	30				
	3 4 4 4	S2 4	2.0 4.0		SM	Loose brown silty SAND (SM), mps 25 mm, no structure, slight MGP odor, wet, with root fibers, brick pieces and fragments	5	10	5	20	20	40				
	1 1 1	S3 6	4.0 6.0		OL/ OH	Very soft dark brown ORGANIC SOIL (OL/OH), mps 25 mm, no structure, slight MGP odor, wet, with fibers and brick fragments	5	5	5	5	5	80	R	L	N	L
	1 WOH WOH 1	S4 24	6.0 8.0		OL/ OH	Very soft dark brown sandy ORGANIC SOIL (OL/OH), mps 1 mm, no structure, slight MGP odor, wet, with plant fibers and shells				5	20	75	R	L	N	L
	WOR WOR WOR WOH	NR	8.0 10.0			Note: No recovery. -OUTWASH/MARSH DEPOSITS-										
	WOR WOR 1 1	S5 24	10.0 12.0		OL/ OH	Similar to above				5	20	75	R	L	N	L
	1 WOH 1 1	S6 20	12.0 14.0		OL/ OH	Similar to above				5	40	55	R	L	N	L
	1 1 WOH 3	S7 10	14.0 16.0		OL/ OH	Similar to above				5	40	55	R	L	N	L
	2 2 2 2	S8 18	16.0 18.0	566.1 16.5	SM	Similar to above Very loose gray brown silty SAND (SM), mps 3 mm, no structure, slight MGP odor, wet, with shells			5	35	35	25				
				564.6 18.0		-OUTWASH- BOTTOM OF EXPLORATION 18.0 FT										

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Overburden (ft) 18.0 Rock Cored (ft) - Samples S8	Boring No. HA3
			Bottom of Casing	Bottom of Hole	Water				

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

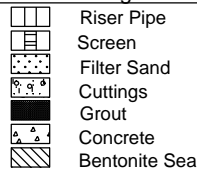
Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 17, 2008
 Finish April 17, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type: Cutting Head
Hammer Weight (lb)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 16.0 ft
				Hoist/Hammer: Winch Automatic Hammer
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 582.4
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev./Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	3	S1	0.0	578.4 4.0	SM	Loose dark brown silty SAND (SM), mps 10 mm, no structure, MGP odor, moist, with brick fragments and root fibers		5	10	25	25	35					
	3	6	2.0		SM	Similar to above except with MGP product		5	10	25	25	35					
							-URBAN FILL-										
	3	S2	2.0														
	4	4	4.0														
	3																
	3	S3	4.0			OL/ OH	Medium stiff dark brown sandy ORGANIC SOIL (OL/OH), mps 10 mm, no structure, MGP odor, wet, decomposed wood and fibers and brick pieces		5	5	10	15	65	R	L	N	L
	3	2	6.0														
	3	S4	6.0			OL/ OH	Very soft black ORGANIC SOIL (OL/OH) with sand, mps 5 mm, no structure, MGP odor, wet, with decomposed wood and fibers		5	5	5	5	80	R	L	N	L
	1	6	8.0														
	1				OL/ OH	Similar to above with shells		5	5	5	5	80	R	L	N	L	
	1	S5	8.0			-OUTWASH/MARSH DEPOSITS-											
	1	18	10.0														
	1																
	1	S6	10.0		OL/ OH	Similar to above		5	5	5	5	80	R	L	N	L	
	1	5	12.0														
	1																
	1	S7	12.0		OL/ OH	Similar to above		5	5	5	5	80	R	L	N	L	
	1	10	14.0														
	1																
	1	S8	14.0		OL/ OH	Similar to above		5	5	5	5	80	R	L	N	L	
	1	24	16.0														
	1																
	1	S9	16.0			Similar to above											
	1	12	18.0														
	3			565.4													
	5			17.0	CL	Soft gray lean CLAY (CL), mps <1 mm, no structure, slight MGP odor, wet							100	N	M	M	
				564.4		-GLACIAL TILL-											
				18.0		BOTTOM OF EXPLORATION 18.0 FT											

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Overburden (ft)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water				
								18.0	-
									S9
								Boring No.	HA4

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

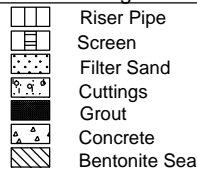
File No. 12758-030
 Sheet No. 1 of 1
 Start April 21, 2008
 Finish April 21, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type: Cutting Head
Hammer Weight (lb)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 12.0 ft
				Hoist/Hammer: Winch Automatic Hammer
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 578.5
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test					
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	WOR	S1	0.0		OL/	Very soft dark brown ORGANIC SOIL with sand (OL/OH), mps 10 mm, no structure, strong MGP odor, wet, decomposing wood and plant fibers		5	5	5	5	80	R	L	N	L	
	WOR	4	2.0		OH												
	WOR	NR	2.0			Note: No recovery.											
	WOR	NR	4.0			-OUTWASH/MARSH DEPOSITS-											
	WOR	S2	4.0		OL/	Similar to above except with MGP product		5	5	5	5	80	R	L	N	L	
	WOR	4	6.0		OH												
	WOR	NR	6.0			Note: No recovery.											
	WOR	NR	8.0														
	WOR	S3	8.0		OL/	Very soft dark brown/black ORGANIC SOIL (OL/OH), mps 1 mm, no structure, strong MGP odor, wet, peat fibers, MGP product				5	5	90	R	L	N	L	
	WOR	8	10.0		OH												
	WOR	S4	10.0			Similar to above											
	WOR	12	12.0														
	WOR	S5	12.0			Similar to above											
	WOR	18	14.0														
	WOR	3		565.5 13.0	CL	Very soft gray lean CLAY (CL), mps <1 mm, no structure, strong MGP odor, wet, with MGP product							100	N	M	M	H
				564.5 14.0		-GLACIAL TILL-											
						BOTTOM OF EXPLORATION 14.0 FT											

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:	O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Overburden (ft) 14.0 Rock Cored (ft) - Samples S5	Boring No. HA5		
			Bottom of Casing Bottom of Hole Water						

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 22, 2008
 Finish April 22, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type: Cutting Head
Hammer Weight (lb)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 12.0 ft
				Hoist/Hammer: Winch Automatic Hammer
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 579.2
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test						
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0						Clean out through urban fill and tires -URBAN FILL-												
	6 5 5 WOH	S1 2	2.0 4.0	577.2 2.0	OL/ OH	Stiff brown sandy ORGANIC SOIL (OL/OH), mps 10 mm, no structure, MGP odor, wet, with brick fragments and particles -MIX FILL/MARSH/OUTWASH-		5	10	5	15	55	R	L	N	L		
	1 WOH WOH 1	S2 12	4.0 6.0	575.2 4.0	OL/ OH	Very soft dark brown/black sandy ORGANIC SOILS (OL/OH), mps 1 mm, no structure, strong MGP odor, wet, with peat fibers and decomposing plants/wood				5	15	80	R	L	N	L		
	1 WOH 1 WOH	S3 22	6.0 8.0		OL/ OH	Similar to above with shells				5	10	85	R	L	N	L		
	1 WOH 1 1	S4 18	8.0 10.0		OL/ OH	Very soft dark brown ORGANIC SOIL (OL/OH), mps 1 mm, no structure, strong MGP odor, wet, with peaty fibers, shells and MGP product				5	5	90	R	L	N	L		
10	WOR WOR WOR WOR	S5 24	10.0 12.0			-OUTWASH/MARSH DEPOSITS-												
	1 WOH 1 1	S6 10	12.0 14.0	566.7 12.5	SM	Similar to above Very loose gray brown silty SAND (SM), mps 2 mm, no structure, MGP odor, wet, with shells and MGP product -OUTWASH-				5	25	30	40					
				565.2 14.0		BOTTOM OF EXPLORATION 14.0 FT												

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

Water Level Data				Sample ID		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod	T - Thin Wall Tube	U - Undisturbed Sample	S - Split Spoon Sample	Overburden (ft) 14.0
			Bottom of Casing	Bottom of Hole	Water					
										Boring No. HA6

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 22, 2008
 Finish April 22, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type: Cutting Head
Hammer Weight (lb)	--	140	-	Drill Mud: None
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 12.0 ft
				Hoist/Hammer: Winch Automatic Hammer
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 578.6
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test							
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0						-URBAN FILL- Clean out through tires and urban fill to 2 ft Note: Drill action suggests material change at 2.0 ft.													
	1 WOH	NR	2.0	576.6		-OUTWASH/MARSH DEPOSITS- Note: No recovery.													
	1 WOH		4.0	2.0															
	1 WOH	NR	4.0			Note: No recovery.													
	1 WOH		6.0																
	1 WOH		6.0																
	1 WOH	S1	6.0		OL/ OH	Very soft dark brown ORGANIC SOIL (OL/OH), mps 1 mm, no structure, MGP odor, wet, with decomposing plant material			5	5	90	R	L	N	L				
	1 WOH	NR	8.0			Note: No recovery.													
	1 WOH		10.0																
	1 WOH	S2	10.0		OL/ OH	Very soft dark brown ORGANIC SOIL (OL/OH), mps 1 mm, no structure, MGP odor, wet, with decomposing plant material and shells			5	5	90	R	L	N	L				
	1 WOH		12.0																
	1 WOH	S3	12.0	566.6	SM	Very loose dark brown silty SAND (SM), mps 1 mm, no structure, slight MGP odor, wet, with MGP product			40	30	30								
	1 WOH	18	14.0	12.0		-OUTWASH-													
	1 WOH																		
	1 WOH			564.6		BOTTOM OF EXPLORATION 14.0 FT													
	1 WOH			14.0															

Water Level Data				Sample ID		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod	T - Thin Wall Tube	U - Undisturbed Sample	S - Split Spoon Sample	Overburden (ft) 14.0
			Bottom of Casing	Bottom of Hole	Water					
										Samples S3
									Boring No. HA7	

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*Note: Maximum particle size is determined by direct observation within the limitations of sampler size.
 Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

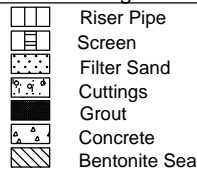
Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 23, 2008
 Finish April 23, 2008

	Casing	Sampler	Barrel	Drilling Equipment and Procedures
Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type:
Hammer Weight (lb)	--	140	-	Drill Mud:
Hammer Fall (in.)	--	30	-	Casing: HSA Spun to 14.0 ft
				Hoist/Hammer:
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 581.6
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test						
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	2	S1	0.0	579.6 2.0	SM	Loose dark brown silty SAND (SM), mps 5 mm, no structure, slight MGP odor, moist with brick particles		5	5	30	30							
	3	4	2.0															
	3						-URBAN FILL-											
	2																	
	1	S2	2.0			OL/OH	Very soft dark brown ORGANIC SOIL (OL/OH), mps 1 mm, no structure, strong MGP odor, moist, with decomposing plant material and MGP product				5	5	90	R	L	N	L	
	WOH	12	4.0															
	WOH																	
	WOH																	
	1	S3	4.0			OL/OH	Similar to above except wet				5	5	90	R	L	N	L	
	1	2	6.0															
5	1																	
	1																	
	1	S4	6.0		OL/OH	Similar to above except with decomposing wood												
	WOR	12	8.0															
	WOR																	
	WOR																	
	WOR																	
	1	S5	8.0		OL/OH	Similar to above except with shells												
	WOR	24	10.0															
	WOR																	
	WOR																	
10	WOR	S6	10.0		OL/OH	Very soft dark brown ORGANIC SOIL with sand (OL/OH), mps 1 mm, no structure, MGP odor, wet				10	15	75	R	L	N	L		
	WOR	24	12.0															
	WOR																	
	1	S7	12.0		OL/OH	Similar to above												
	WOH	20	14.0															
	1																	
	1	S8	14.0		OL/OH	Very soft dark brown ORGANIC SOIL (OL/OH), mps 1 mm, no structure, strong MGP odor, wet, with plant fibers, shells and MGP product				5	5	90	R	L	N	L		
	1	18	16.0															
15	WOH																	
	1			566.1	SM	Very loose gray brown silty SAND (SM), mps 3 mm, no structure, strong MGP odor, wet, with shells				5	35	35	25					
				565.6		-OUTWASH-												
				16.0		BOTTOM OF EXPLORATION 16.0 FT												

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Overburden (ft)	Rock Cored (ft)
			Bottom of Casing	Bottom of Hole	Water				
								16.0	-
									S8
								Boring No. HA8	

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

Project NIPSCO FORMER MGP SITE; HAMMOND, IN
 Client NiSOURCE, INC.
 Contractor RD-n-P DRILLING

File No. 12758-030
 Sheet No. 1 of 1
 Start April 23, 2008
 Finish April 23, 2008

Type	HSA	S	--	Rig Make & Model: Dietrich D-50
Inside Diameter (in.)	4.25	1 3/8	--	Bit Type:
Hammer Weight (lb)	--	-	-	Drill Mud:
Hammer Fall (in.)	--	-	-	Casing: HSA Spun to 12.0 ft
				Hoist/Hammer:
				PID Make & Model:

H&A Rep. F. Marowitz
 Elevation 578.5
 Datum NGVD 29
 Location See Plan

Depth (ft)	Sampler Blows per 6 in.	Sample No. & Rec. (in.)	Sample Depth (ft)	Stratum Change Elev/Depth (ft)	USCS Symbol	VISUAL-MANUAL IDENTIFICATION AND DESCRIPTION (Density/consistency, color, GROUP NAME, max. particle size*, structure, odor, moisture, optional descriptions GEOLOGIC INTERPRETATION)	Gravel		Sand			Field Test									
							% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength					
0						Clean out through tires to urban fill to 4.0 ft															
				574.5		-URBAN FILL-															
5	WOH	S2	4.0	4.0	OL/	Very soft dark brown/black ORGANIC SOIL (OL/OH), mps <1 mm, no structure, strong MGP odor, wet, with decomposing plant fibers, MGP product					5	95	R	L	N	L					
	WOH	20	6.0		OH																
	WOR	S3	6.0				Similar to above														
	WOR	12	8.0				Similar to above														
	WOR	S4	8.0			Similar to above					5	95	4	L	N	L					
	WOR	24	10.0																		
	WOR	NR	10.0																		
	WOR		12.0																		
10	WOH	S5A	12.0	12.0	SM	Very loose dark brown silty SAND (SM), mps 1 mm, no structure, MGP odor, wet, with shells and MGP product															
	1	15	13.5			-OUTWASH-															
	3	S5B	13.0			Soft gray lean CLAY (CL), mps <1 mm, no structure, MGP odor, wet															
	3	6	13.5		CL		-GLACIAL TILL-														
				565.0		BOTTOM OF EXPLORATION 14.0 FT															
				13.5																	
				564.5																	
				14.0																	

H&A-TEST BORING-07-1 HA-LIB07-1-BOS.GLB HA-TB-CORE-WELL-07-1.GDT G:\12758030\FIELD DATA\12758-030_TB.GPJ May 6, 08

Water Level Data					Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth (ft) to:			O - Open End Rod T - Thin Wall Tube U - Undisturbed Sample S - Split Spoon Sample		Riser Pipe Screen Filter Sand Cuttings Grout Concrete Bentonite Seal	Overburden (ft)	14.0	Boring No. HA9
			Bottom of Casing	Bottom of Hole	Water				Rock Cored (ft)	-	

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

***Note: Maximum particle size is determined by direct observation within the limitations of sampler size.**
Note: Soil identification based on visual-manual methods of the USCS as practiced by Haley & Aldrich, Inc.

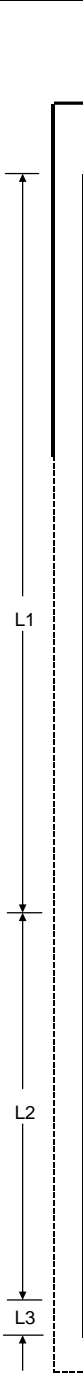
OBSERVATION WELL INSTALLATION REPORT

Well No.
HA 1 Deep
Boring No.
HA 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NISOURCE, Inc.	FIELD REP.	F. Marowitz
CONTRACTOR	RD-n-P DRILLING, INC.	DATE INSTALLED	4/16/2008
DRILLER	R. Eger	WATER LEVEL	

Ground El. _____ ft	Location <u>See Plan</u>	<input checked="" type="checkbox"/> Guard Pipe
El. Datum _____		<input type="checkbox"/> Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			
		Type of protective cover/lock	Pro Cover	
		Height/Depth of top of Pro Cover with lid open	2.3 ft	
		Height/Depth of top of riser pipe above/below ground surface	2.4 ft	
		Type of protective casing:	Pro Cover	
		Length	5.0 ft	
		Inside Dimention	4 in	
		Depth of bottom of guard pipe/roadway box	2.7 ft	
		<u>Type of Seals</u>	<u>Top of Seal (ft)</u>	<u>Thickness (ft)</u>
		Concrete	N/A	
		Bentonite Seal	10.5	3.5
		Type of riser pipe:	Schedule 40 PVC	
		Inside diameter of riser pipe	1.0 in	
		Type of backfill around riser	Bentonite / Cuttings	
		Diameter of borehole	8.0 in	
		Depth to top of well screen	14.0 ft	
		Type of screen	Schedule 40 PVC	
		Screen gauge or size of openings	0.010 in	
		Diameter of screen	1.0 in	
		Type of backfill around screen	# 3 Well Sand	
		Depth of bottom of well screen	19.0 ft	
		Bottom of Silt trap	19.5 ft	
		Depth of bottom of borehole	20.0 ft	



(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\frac{\text{ft}}{\text{Riser Pay Length (L1)}} + \frac{\text{ft}}{\text{Length of screen (L2)}} + \frac{\text{ft}}{\text{Length of silt trap (L3)}} = \frac{\text{ft}}{\text{Pay length}}$$

COMMENTS: _____

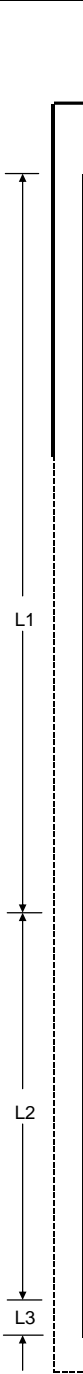
OBSERVATION WELL INSTALLATION REPORT

Well No.
HA 1 Shallow
Boring No.
HA 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NiSOURCE, Inc.	FIELD REP.	F. Marowitz
CONTRACTOR	RD-n-P DRILLING, INC.	DATE INSTALLED	4/16/2008
DRILLER	R. Eger	WATER LEVEL	

Ground El. _____ ft	Location <u>See Plan</u>	<input checked="" type="checkbox"/> Guard Pipe
El. Datum _____		<input type="checkbox"/> Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL		
		Type of protective cover/lock	Pro Cover
		Height/Depth of top of Pro Cover with lid open	2.3 ft
		Height/Depth of top of riser pipe above/below ground surface	2.4 ft
		Type of protective casing:	Pro Cover
		Length	5.0 ft
		Inside Dimention	4 in
		Depth of bottom of guard pipe/roadway box	2.7 ft
		<u>Type of Seals</u>	<u>Top of Seal (ft)</u>
		Concrete	N/A
		Bentonite Seal	0.0
			4.0
		Type of riser pipe:	Schedule 40 PVC
		Inside diameter of riser pipe	1.0 in
		Type of backfill around riser	Bentonite / Cuttings
		Diameter of borehole	8.0 in
		Depth to top of well screen	5.0 ft
		Type of screen	Schedule 40 PVC
		Screen gauge or size of openings	0.010 in
		Diameter of screen	1.0 in
		Type of backfill around screen	# 5 Well Sand
		Depth of bottom of well screen	10.0 ft
		Bottom of Silt trap	10.5 ft
		Depth of bottom of borehole	20.0 ft



(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\frac{\text{ft}}{\text{Riser Pay Length (L1)}} + \frac{\text{ft}}{\text{Length of screen (L2)}} + \frac{\text{ft}}{\text{Length of silt trap (L3)}} = \frac{\text{ft}}{\text{Pay length}}$$

COMMENTS: _____

OBSERVATION WELL INSTALLATION REPORT

Well No.
HA 3 Deep
Boring No.
HA 3

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NISOURCE, Inc.	FIELD REP.	F. Marowitz
CONTRACTOR	RD-n-P DRILLING, INC.	DATE INSTALLED	4/17/2008
DRILLER	R. Eger	WATER LEVEL	

Ground El. _____ ft	Location <u>See Plan</u>	<input checked="" type="checkbox"/> Guard Pipe
El. Datum _____		<input type="checkbox"/> Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL	Diagram & Specifications															
		<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> </div> <div style="width: 65%;"> <p>Type of protective cover/lock _____ Pro Cover</p> <p>Height/Depth of top of Pro Cover with lid open _____ 2.3 ft</p> <p>Height/Depth of top of riser pipe above/below ground surface _____ 2.4 ft</p> <p>Type of protective casing: _____ Pro Cover</p> <p>Length _____ 5.0 ft</p> <p>Inside Dimention _____ 4 in</p> <p>Depth of bottom of guard pipe/roadway box _____ 2.7 ft</p> <table border="1" style="width: 100%; margin-top: 10px;"> <thead> <tr> <th>Type of Seals</th> <th>Top of Seal (ft)</th> <th>Thickness (ft)</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>N/A</td> <td></td> </tr> <tr> <td>Bentonite Seal</td> <td>12.5</td> <td>2.5</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> <p>Type of riser pipe: _____ Schedule 40 PVC</p> <p>Inside diameter of riser pipe _____ 1.0 in</p> <p>Type of backfill around riser _____ Bentonite / Cuttings</p> <p>Diameter of borehole _____ 8.0 in</p> <p>Depth to top of well screen _____ 14.0 ft</p> <p>Type of screen _____ Schedule 40 PVC</p> <p>Screen gauge or size of openings _____ 0.010 in</p> <p>Diameter of screen _____ 1.0 in</p> <p>Type of backfill around screen _____ # 3 Well Sand</p> <p>Depth of bottom of well screen _____ 19.0 ft</p> <p>Bottom of Silt trap _____ 19.5 ft</p> <p>Depth of bottom of borehole _____ 20.0 ft</p> </div> </div>	Type of Seals	Top of Seal (ft)	Thickness (ft)	Concrete	N/A		Bentonite Seal	12.5	2.5						
Type of Seals	Top of Seal (ft)	Thickness (ft)															
Concrete	N/A																
Bentonite Seal	12.5	2.5															

(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\text{ft} + \text{ft} + \text{ft} = \text{ft}$$

Riser Pay Length (L1) Length of screen (L2) Length of silt trap (L3) Pay length

COMMENTS: _____

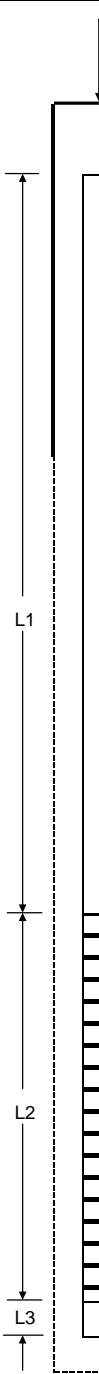
OBSERVATION WELL INSTALLATION REPORT

Well No.
HA 3 Shallow
Boring No.
HA 3

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NISOURCE, Inc.	FIELD REP.	F. Marowitz
CONTRACTOR	RD-n-P DRILLING, INC.	DATE INSTALLED	
DRILLER	R. Eger	WATER LEVEL	

Ground El. _____ ft	Location <u>See Plan</u>	<input checked="" type="checkbox"/> Guard Pipe
El. Datum _____		<input type="checkbox"/> Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			
		Type of protective cover/lock	Pro Cover	
		Height/Depth of top of Pro Cover with lid open	2.3 ft	
		Height/Depth of top of riser pipe above/below ground surface	2.4 ft	
		Type of protective casing:	Pro Cover	
		Length	5.0 ft	
		Inside Dimention	4 in	
		Depth of bottom of guard pipe/roadway box	2.7 ft	
		<u>Type of Seals</u>	<u>Top of Seal (ft)</u>	<u>Thickness (ft)</u>
		Concrete	N/A	
		Bentonite Seal	0.0	4.0
		Type of riser pipe:	Schedule 40 PVC	
		Inside diameter of riser pipe	1.0 in	
		Type of backfill around riser	Bentonite / Cuttings	
		Diameter of borehole	8.0 in	
		Depth to top of well screen	5.0 ft	
		Type of screen	Schedule 40 PVC	
		Screen gauge or size of openings	0.010 in	
		Diameter of screen	1.0 in	
		Type of backfill around screen	# 5 Well Sand	
		Depth of bottom of well screen	10.0 ft	
		Bottom of Silt trap	10.5 ft	
		Depth of bottom of borehole	20.0 ft	



(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\frac{\text{ft}}{\text{Riser Pay Length (L1)}} + \frac{\text{ft}}{\text{Length of screen (L2)}} + \frac{\text{ft}}{\text{Length of silt trap (L3)}} = \frac{\text{ft}}{\text{Pay length}}$$

COMMENTS: _____

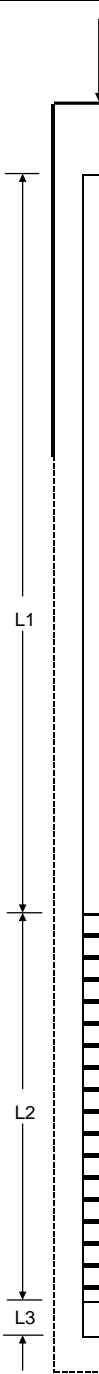
OBSERVATION WELL INSTALLATION REPORT

Well No.
HA 4 Deep
Boring No.
HA 4

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NISOURCE, Inc.	FIELD REP.	F. Marowitz
CONTRACTOR	RD-n-P DRILLING, INC.	DATE INSTALLED	4/17/2008
DRILLER	R. Eger	WATER LEVEL	

Ground El. _____ ft	Location <u>See Plan</u>	<input checked="" type="checkbox"/> Guard Pipe
El. Datum _____		<input type="checkbox"/> Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			
		Type of protective cover/lock	Pro Cover	
		Height/Depth of top of Pro Cover with lid open	2.4 ft	
		Height/Depth of top of riser pipe above/below ground surface	2.4 ft	
		Type of protective casing:	Pro Cover	
		Length	5.0 ft	
		Inside Dimention	4 in	
		Depth of bottom of guard pipe/roadway box	2.6 ft	
		<u>Type of Seals</u>	<u>Top of Seal (ft)</u>	<u>Thickness (ft)</u>
		Concrete	N/A	
		Bentonite Seal	11.3	3.0
		Type of riser pipe:	Schedule 40 PVC	
		Inside diameter of riser pipe	1.0 in	
		Type of backfill around riser	Bentonite / Cuttings	
		Diameter of borehole	8.0 in	
		Depth to top of well screen	14.0 ft	
		Type of screen	Schedule 40 PVC	
		Screen gauge or size of openings	0.010 in	
		Diameter of screen	1.0 in	
		Type of backfill around screen	# 3 Well Sand	
		Depth of bottom of well screen	19.0 ft	
		Bottom of Silt trap	19.5 ft	
		Depth of bottom of borehole	20.0 ft	



(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\frac{\text{ft}}{\text{Riser Pay Length (L1)}} + \frac{\text{ft}}{\text{Length of screen (L2)}} + \frac{\text{ft}}{\text{Length of silt trap (L3)}} = \frac{\text{ft}}{\text{Pay length}}$$

COMMENTS: _____

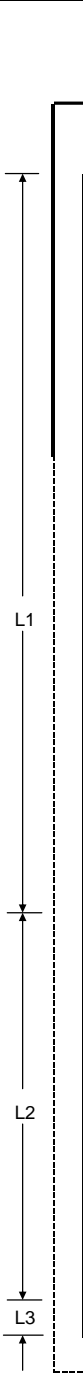
OBSERVATION WELL INSTALLATION REPORT

Well No.
HA 4 Shallow
Boring No.
HA 4

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NISOURCE, Inc.	FIELD REP.	F. Marowitz
CONTRACTOR	RD-n-P DRILLING, INC.	DATE INSTALLED	4/17/2008
DRILLER	R. Eger	WATER LEVEL	

Ground El. _____ ft	Location <u>See Plan</u>	<input checked="" type="checkbox"/> Guard Pipe
El. Datum _____		<input type="checkbox"/> Roadway Box

SOIL/ROCK CONDITIONS	BOREHOLE BACKFILL			
		Type of protective cover/lock	Pro Cover	
		Height/Depth of top of Pro Cover with lid open	2.4 ft	
		Height/Depth of top of riser pipe above/below ground surface	2.4 ft	
		Type of protective casing:	Pro Cover	
		Length	5.0 ft	
		Inside Dimention	4 in	
		Depth of bottom of guard pipe/roadway box	2.6 ft	
		<u>Type of Seals</u>	<u>Top of Seal (ft)</u>	<u>Thickness (ft)</u>
		Concrete	N/A	
		Bentonite Seal	0.0	4.3
		Type of riser pipe:	Schedule 40 PVC	
		Inside diameter of riser pipe	1.0 in	
		Type of backfill around riser	Bentonite / Cuttings	
		Diameter of borehole	8.0 in	
		Depth to top of well screen	5.0 ft	
		Type of screen	Schedule 40 PVC	
		Screen gauge or size of openings	0.010 in	
		Diameter of screen	1.0 in	
		Type of backfill around screen	# 5 Well Sand	
		Depth of bottom of well screen	10.0 ft	
		Bottom of Silt trap	10.5 ft	
		Depth of bottom of borehole	20.0 ft	



(Bottom of Exploration)
(Numbers refer to depth from ground surface in feet)

(Not to Scale)

$$\frac{\text{ft}}{\text{Riser Pay Length (L1)}} + \frac{\text{ft}}{\text{Length of screen (L2)}} + \frac{\text{ft}}{\text{Length of silt trap (L3)}} = \frac{\text{ft}}{\text{Pay length}}$$

COMMENTS: _____

TABLE I
 SHEAR VANE DATA IN BORINGS
 SUPPLEMENTAL GEOTECHNICAL INVESTIGATION
 NIPSCO FORMER MGP SITE
 HAMMOND, INDIANA

Boring (#)	Test (#)	Station*** (#)	Location	Depth (ft)	σ' (psf)	Peak		Remolded		Field Shear Strength (Su _F)		Corrected Shear Strength* (Su)	
						Su _F /σ'	λ	Su _F /σ'	λ	Peak (psf)	Remolded (psf)	Peak (psf)	Remolded (psf)
HA 9	1	3+20	River	5.0	332.8	1.4	0.60	0.3	0.75	476	97	286	73
HA 9	2	3+20	River	11.0	438.4	1.0	0.60	0.5	0.70	423	212	254	148
HA 5	1	4+97	River	5.0	332.8	0.7	0.60	0.3	0.75	229	88	137	66
HA 5	2	4+97	River	10.0	420.8	0.5	0.70	0.2	0.90	212	88	148	79
HA 6	1	4+97	River	7.5	376.8	1.2	0.60	0.2	0.90	441	88	265	79
HA 6	2	4+97	River	11.5	447.2	1.4	0.60	0.4	0.70	617	159	370	111
HA 7	1	6+50	River	4.0	315.2	1.2	0.60	0.4	0.70	388	115	233	81
HA 7	2	6+50	River	9.0	403.2	0.9	0.60	0.3	0.75	353	141	212	106
HA 1	1	3+20	Upland	7.0	368.0	2.8	0.60	0.6	0.65	1041	229	625	149
HA 1	2	3+20	Upland	13.5	482.4	0.8	0.60	0.5	0.70	362	221	217	155
HA 2	1	3+20	Upland	5.0	332.8	4.5	0.60	1.4	0.60	1499*	476*	899.4*	285.6*
HA 2	2	3+20	Upland	9.5	412.0	2.1	0.60	0.8	0.60	882**	335	529	201
HA 3	1	4+97	Upland	8.0	385.6	2.8	0.60	0.9	0.60	1076	335	646	201
HA 4	1	6+50	Upland	6.5	359.2	1.9	0.60	0.8	0.60	688	282	413	169
HA 4	2	6+50	Upland	12.0	456.0	2.1	0.60	0.9	0.60	970	406	582	244
HA 8	1	6+50	Upland	6.5	359.2	1.7	0.60	0.5	0.70	609	185	365	130
HA 8	2	6+50	Upland	11.0	438.4	1.5	0.60	0.5	0.70	679	229	407	160

River		
Peak	Remolded	
238	93	Average
137	66	Min
370	148	Max
75	27	Standard Deviation
Upland		
Peak	Remolded	
473	176	Average
217	130	Min
646	244	Max
148	37	Standard Deviation

Notes:

- 1) Tests performed during soil borings by Haley & Aldrich Design & Construction using a Acker Precision shear vane during the period from 15 to 23 April 2008.
- 2) * Tests performed outside of ASTM specifications. Test was completed in under two minutes rather. ASTM specifies a target for full test of 15 minutes
- 3) ** Test was terminated prior to 90° of vane rotation as required by ASTM.
- 4) *** Station refers to structural wall stationing.
- 5) Stations and locations for the borings refer to planned locations. Actual locations have been surveyed and the results are pending.
- 6) Field data is uncorrected.
- 7) + corrected using Aas et al. (1986).

TABLE II
 HAND SHEAR VANE DATA IN RIVER
 SUPPLEMENTAL GEOTECHNICAL INVESTIGATION
 NIPSCO FORMER MGP SITE
 HAMMOND, INDIANA

Location (#)	Test (#)	Station** (#)	Offset from Fence* (ft)	Depth (ft)	Field Shear Strength (Su)		Corrected Shear Strength ⁺ (Su)	
					Peak (psf)	Remolded (psf)	Peak (psf)	Remolded (psf)
RSV 1	1	6+50	5	1.0	317.5	52.9	190.512	31.752
RSV 1	2	6+50	5	2.0	194.0	35.3	116.424	21.168
RSV 2	3	6+50	15	1.0	70.6	17.6	42.336	10.584
RSV 2	4	6+50	15	2.0	105.8	17.6	63.504	10.584
RSV 3	5	6+50	30	1.0	88.2	35.3	52.92	21.168
RSV 3	6	6+50	30	2.0	88.2	17.6	52.92	10.584
RSV 4	7	5+00	5	1.0	194.0	17.6	116.424	10.584
RSV 4	8	5+00	5	2.0	352.8	88.2	211.68	52.92
RSV 5	9	5+00	15	1.0	70.6	17.6	42.336	10.584
RSV 5	10	5+00	15	2.0	70.6	17.6	42.336	10.584
RSV 6	11	5+00	40	1.0	70.6	35.3	42.336	21.168
RSV 6	12	5+00	40	2.0	52.9	Note 3	31.752	
RSV 7	13	3+20	10	1.0	70.6	17.6	42.336	10.584
RSV 7	14	3+20	10	2.0	52.9	17.6	31.752	10.584

- 1) Shear vane tests performed by Haley & Aldrich Design & Construction, Inc. using a MDOT Standard shear vane on 24 April 2008.
- 2) * Offset measured North from temporary construction fence.
- 3) ** Station refers to structural wall stationing.
- 4) Value below range of torque wrench.
- 5) ⁺ corrected using Aas et al. (1986)



TEST PIT LOG

Test Pit No.
TP 1
Page 1 of 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NIPSCO	FIELD REP	F. Marowitz
CONTRACTOR	RW Collins	DATE	4/18/2008
EQUIPMENT	Caterpillar 307	WEATHER	Sunny 60°

Ground El.	N/A	Location	See Plan	Groundwater depths/entry rates (in./min.):	1+ in./min
El. Datum	N/A				

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test																		
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength														
2		2.5	SM	Dark brown, silty SAND with gravel (SM), 5% OS, MPS = 3 in. no structure, MGP odor, moist to wet, with bricks and MGP Product -URBAN FILL- Water entering rapidly at 2.0 ft.	10	10	15	15	15	35																		
4			OL-OH	Black, ORGANIC SOIL with sand (OL-OH), 0% OS, MPS=.25 in. no structure, MGP odor, wet, with plant fibers and MGP product -OUTWASH / MARSH DEPOSITS-		5	5	5	10	75																		
8				BOTTOM OF EXPLORATION 7.0 FT																								
8				<p align="center">Summary of Nuclear Density Tests in URBAN FILL</p> <table border="1"> <thead> <tr> <th>Depth of Test Pit (ft)</th> <th>Depth of Test (in.)</th> <th>Bulk Density (pcf)</th> <th>Dry Density (pcf)</th> <th>Water Content (%)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12</td> <td>101.8</td> <td>78.6</td> <td>29.6</td> </tr> <tr> <td>1</td> <td>12</td> <td>90</td> <td>72.7</td> <td>23.7</td> </tr> </tbody> </table>	Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)	0	12	101.8	78.6	29.6	1	12	90	72.7	23.7									
Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)																								
0	12	101.8	78.6	29.6																								
1	12	90	72.7	23.7																								
10																												
12																												
14																												

Obstructions:	Remarks:	Field Tests
		Dilatancy: R - Rapid S - Slow N - None
		Toughness: L - Low M - Medium H - High
		Plasticity: N - Nonplastic L - Low M - Medium H - High
		Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:	Boulders:	Test Pit Dimensions (ft.):
at depth 6 ft.	Diameter (in.) 12 to 24	Pit Depth 7.0
measured after 0.1 hrs. elapsed	Number 0.0 = Approx. vol. (cu. ft.) 0.0	Pit Length X Width 5.0 x 3.0
	0.0 = 0.0	

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST PIT LOG

Test Pit No.
TP 2
Page 1 of 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NIPSCO	FIELD REP	F. Marowitz
CONTRACTOR	RW Collins	DATE	4/18/2008
EQUIPMENT	Caterpillar 307	WEATHER	Sunny 60°

Ground El.	N/A	ft.	Location	See Plan	Groundwater depths/entry rates (in./min.):
El. Datum	N/A				1+ in./min

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test																		
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength														
2		3.0	SM	Dark brown, silty SAND with gravel (SM), 5% OS, MPS = 3 in. no structure, MGP odor, moist to wet, with bricks, tires, and MGP Product Water entering rapidly at 2.0 ft. Organic soil mixed with urban fill below 2 ft -URBAN FILL-	10	10	15	15	15	35																		
4			OL-OH	Black, ORGANIC SOIL with sand (OL-OH), 0% OS, MPS=.25 in. no structure, MGP odor, wet, with plant fibers and MGP product -OUTWASH / MARSH DEPOSITS-		5	5	5	10	75																		
6				BOTTOM OF EXPLORATION 6.0 FT																								
8				Summary of Nuclear Density Tests in URBAN FILL <table border="1"> <thead> <tr> <th>Depth of Test Pit (ft)</th> <th>Depth of Test (in.)</th> <th>Bulk Density (pcf)</th> <th>Dry Density (pcf)</th> <th>Water Content (%)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>10</td> <td>104.6</td> <td>81.3</td> <td>28.7</td> </tr> <tr> <td>1</td> <td>12</td> <td>93.9</td> <td>79.5</td> <td>18.1</td> </tr> </tbody> </table>	Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)	0	10	104.6	81.3	28.7	1	12	93.9	79.5	18.1									
Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)																								
0	10	104.6	81.3	28.7																								
1	12	93.9	79.5	18.1																								
10																												
12																												
14																												

Obstructions: 9 car / truck tires	Remarks:	Field Tests
		Dilatancy: R - Rapid S - Slow N - None
		Toughness: L - Low M - Medium H - High
		Plasticity: N - Nonplastic L - Low M - Medium H - High
		Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit: at depth 5 ft. measured after 0.1 hrs. elapsed	Boulders: Diameter (in.) Number = Approx. vol. (cu. ft.) 12 to 24 0.0 = 0.0 over 24 0.0 = 0.0	Test Pit Dimensions (ft.): Pit Depth 6.0 Pit Length X Width 6.0 x 3.0
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NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST PIT LOG

Test Pit No.
TP 3
Page 1 of 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NIPSCO	FIELD REP	F. Marowitz
CONTRACTOR	RW Collins	DATE	4/18/2008
EQUIPMENT	Caterpillar 307	WEATHER	Sunny 60°

Ground El. <u> N/A </u> ft.	Location <u> See Plan </u>	Groundwater depths/entry rates (in./min.): 1+ in./min
Ei. Datum <u> N/A </u>		

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test																							
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength																			
2			SM	Black to red -brown, silty SAND with gravel (SM), 5% OS, MPS = 3 in. no structure, MGP odor, moist to wet, with bricks and MGP Product Water entering rapidly at 2.0 ft. -URBAN FILL-	25	10	15	10	10	30																							
4		4	OL-OH	Black, ORGANIC SOIL with sand (OL-OH), 0% OS, MPS=.25 in. no structure, MGP odor, wet, with plant fibers and MGP product -OUTWASH / MARSH DEPOSITS- BOTTOM OF EXPLORATION 4.5 FT		5	5	5	10	75																							
6				<p style="margin: 0;">Summary of Nuclear Density Tests in URBAN FILL</p> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <thead> <tr> <th>Depth of Test Pit (ft)</th> <th>Depth of Test (in.)</th> <th>Bulk Density (pcf)</th> <th>Dry Density (pcf)</th> <th>Water Content (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">8</td> <td style="text-align: center;">105.3</td> <td style="text-align: center;">89.6</td> <td style="text-align: center;">17.5</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">12</td> <td style="text-align: center;">104.4</td> <td style="text-align: center;">90.5</td> <td style="text-align: center;">15.4</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">12</td> <td style="text-align: center;">94.6</td> <td style="text-align: center;">73.6</td> <td style="text-align: center;">28.5</td> </tr> </tbody> </table>	Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)	0	8	105.3	89.6	17.5	1	12	104.4	90.5	15.4	2	12	94.6	73.6	28.5									
Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)																													
0	8	105.3	89.6	17.5																													
1	12	104.4	90.5	15.4																													
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14																																	

Obstructions:	Remarks:	Field Tests
		Dilatancy: R - Rapid S - Slow N - None
		Toughness: L - Low M - Medium H - High
		Plasticity: N - Nonplastic L - Low M - Medium H - High
		Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit: at depth <u> 4 </u> ft. measured after <u> 0.1 </u> hrs. elapsed	Boulders: <table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Diameter (in.)</th> <th style="text-align: left;">Number</th> <th style="text-align: left;">Approx. vol. (cu. ft.)</th> </tr> <tr> <td>12 to 24</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> </tr> <tr> <td>over 24</td> <td style="text-align: center;">0.0</td> <td style="text-align: center;">0.0</td> </tr> </table>	Diameter (in.)	Number	Approx. vol. (cu. ft.)	12 to 24	0.0	0.0	over 24	0.0	0.0	Test Pit Dimensions (ft.): Pit Depth <u> 4.5 </u> Pit Length X Width <u> 6.0 x 3.5 </u>
Diameter (in.)	Number	Approx. vol. (cu. ft.)									
12 to 24	0.0	0.0									
over 24	0.0	0.0									

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST PIT LOG

Test Pit No.
TP 4
Page 1 of 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NIPSCO	FIELD REP	F. Marowitz
CONTRACTOR	RW Collins	DATE	4/18/2008
EQUIPMENT	Caterpillar 307	WEATHER	Sunny 60°

Ground El. <u>N/A</u> ft.	Location <u>See Plan</u>	Groundwater depths/entry rates (in./min.): 1+ in./min
EI. Datum <u>N/A</u>		

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test																		
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength														
2			SM	Dark brown, silty SAND with gravel (SM), 15% OS, MPS = 3 in. no structure, MGP odor, moist to wet, with bricks, large rubble, and MGP Product -URBAN FILL- Water entering rapidly at 3.0 ft.	10	10	15	15	15	35																		
4		3.5	OL-OH	Black, ORGANIC SOIL with sand (OL-OH), 0% OS, MPS=.25 in. no structure, MGP odor, wet, with plant fibers and MGP product -OUTWASH / MARSH DEPOSITS- BOTTOM OF EXPLORATION 4.0 FT		5	5	5	15	70																		
6				<p style="margin: 0;"><u>Summary of Nuclear Density Tests in URBAN FILL</u></p> <table border="1" style="margin: 0 auto; border-collapse: collapse;"> <thead> <tr> <th>Depth of Test Pit (ft)</th> <th>Depth of Test (in.)</th> <th>Bulk Density (pcf)</th> <th>Dry Density (pcf)</th> <th>Water Content (%)</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0</td> <td style="text-align: center;">12</td> <td style="text-align: center;">116.8</td> <td style="text-align: center;">96.9</td> <td style="text-align: center;">20.5</td> </tr> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">10</td> <td style="text-align: center;">108.6</td> <td style="text-align: center;">84.8</td> <td style="text-align: center;">28.1</td> </tr> </tbody> </table>	Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)	0	12	116.8	96.9	20.5	1	10	108.6	84.8	28.1									
Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)																								
0	12	116.8	96.9	20.5																								
1	10	108.6	84.8	28.1																								
8																												
10																												
12																												
14																												

Obstructions:	Remarks:	Field Tests
		Dilatancy: R - Rapid S - Slow N - None
		Toughness: L - Low M - Medium H - High
		Plasticity: N - Nonplastic L - Low M - Medium H - High
		Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:	Boulders:	Test Pit Dimensions (ft.):
at depth <u>3.5</u> ft.	<u>Diameter (in.)</u> <u>Number</u> = <u>Approx. vol. (cu. ft.)</u>	Pit Depth <u>4.5</u>
measured after <u>0.1</u> hrs. elapsed	<u>12 to 24</u> <u>0.0</u> = <u>0.0</u>	Pit Length X Width <u>6.0 x 3.5</u>
	<u>over 24</u> <u>0.0</u> = <u>0.0</u>	

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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TEST PIT LOG

Test Pit No.
TP 5
Page 1 of 1

PROJECT	NIPSCO FORMER NGP SITE	H&A FILE NO.	12758-030
LOCATION	HAMMOND, INDIANA	PROJECT MGR.	D. Demis
CLIENT	NIPSCO	FIELD REP	F. Marowitz
CONTRACTOR	RW Collins	DATE	4/18/2008
EQUIPMENT	Caterpillar 307	WEATHER	Sunny 60°

Ground El.	N/A	Location	See Plan	Groundwater depths/entry rates (in./min.):	1+ in./min
El. Datum	N/A				

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test														
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength										
2			SM	Grey to dark brown, silty SAND with gravel (SM), 5% OS, MPS = 4 in. no structure, MGP odor, moist to wet, with roots, bricks, and rubble -URBAN FILL- Water entering rapidly at 3.5 ft.	5	10	10	15	20	40														
4		4	OL-OH	Black, ORGANIC SOIL with sand (OL-OH), 0% OS, MPS=.25 in. no structure, MGP odor, wet, with plant fibers and MGP product -OUTWASH / MARSH DEPOSITS- BOTTOM OF EXPLORATION 4.5 FT		5	5	5	10	75														
6				<p align="center">Summary of Nuclear Density Tests in URBAN FILL</p> <table border="1"> <thead> <tr> <th>Depth of Test Pit (ft)</th> <th>Depth of Test (in.)</th> <th>Bulk Density (pcf)</th> <th>Dry Density (pcf)</th> <th>Water Content (%)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>12</td> <td>120.1</td> <td>98.4</td> <td>22</td> </tr> </tbody> </table>	Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)	0	12	120.1	98.4	22										
Depth of Test Pit (ft)	Depth of Test (in.)	Bulk Density (pcf)	Dry Density (pcf)	Water Content (%)																				
0	12	120.1	98.4	22																				
8																								
10																								
12																								
14																								

Obstructions:	Remarks:	Field Tests
		Dilatancy: R - Rapid S - Slow N - None
		Toughness: L - Low M - Medium H - High
		Plasticity: N - Nonplastic L - Low M - Medium H - High
		Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:	Boulders:	Test Pit Dimensions (ft.):
at depth 4 ft.	Diameter (in.) Number = Approx. vol. (cu. ft.)	Pit Depth 4.5
measured after 0.1 hrs. elapsed	12 to 24 0.0 = 0.0	Pit Length X Width 5.0 x 3.0
	over 24 0.0 = 0.0	

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

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VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	16 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	5.5	Push with rig head.	6
Test	HSA	Vane (ft)	7.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
00:00	0	0	0	00:00	0	0	0	N/A			
01:08	5		70	00:59	5		18				
02:17	10		102	01:39	10		19				
03:24	15		115	02:24	15		20				
04:07	20		118	03:07	20		21				
04:44	25		110	04:23	25		23				
05:28	30		108	05:24	30		24				
06:15	35		107	06:33	35		25				
06:54	40		108	07:11	40		26				
07:30	45		108	07:57	45		26				
08:16	50		108	08:28	50		26				
09:02	55		94	09:17	55		26				
09:36	60		92	09:57	60		26				
10:13	65		89		65						
10:57	70		88		70						
11:30	75		85	12:41	75		25				
12:08	80		81	14:06	80		25				
12:47	85		80	14:46	85		25				
13:31	90		74	15:36	90		25				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, V _(lb)	118	26
Maximum force guage reading for shaft, H _(lb)	N/A	N/A
Net Force, F _(lb) = V - H	118	26
Applied torque, T(in-lb) = F x Torque Arm (in)	708	156
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T	1041	229
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}}$ = $\frac{1041}{229}$ = 4.54		

VANE SHEAR REPORT

BORING	TEST
No. 1	No. 2
Page 1	of 1

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	16 April 2008
		DRILLER	Richard Eger

Location	See Plan	Soil Description	ORGANIC-SOILS
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Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	12.0	Weight of Rod 0 - 12 in.	6
Test	HSA	Vane (ft)	13.5	Push with rig head 12 - 18 in.	
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
00:00	0	0	0	00:00	0	0	0	N/A			
01:16	5		27	00:42	5		25				
02:21	10		39	01:26	10		24				
03:26	15		40	02:09	15		25				
04:26	20		40	02:52	20		25				
05:11	25		41	03:27	25		25				
05:57	30		41		30						
06:52	35		36	04:37	35		25				
07:38	40		35	05:19	40		24				
08:28	45		34	05:56	45		25				
	50			06:44	50		24				
10:36	55		33	07:31	55		24				
11:37	60		32	08:13	60		24				
12:26	65		32	08:58	65		24				
13:11	70		31	09:35	70		24				
13:52	75		30	10:11	75		24				
14:37	80		30	11:02	80		24				
15:18	85		29	11:36	85		24				
16:03	90		29	12:21	90		24				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$	41	25
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	41	25
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	246	150
Shear Strength, $S (\text{psf}) = \text{Vane Constant, } K \times T = 1.47 \times T$	362	221
Sensitivity = $\frac{S_{(\text{undisturbed})}}{S_{(\text{remolde})}} =$	1.64	



VANE SHEAR REPORT

BORING	TEST
No. 2	No. 1
Page 1 of 1	

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	15 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	3.5	Push by hand	12
Test	HSA	Vane (ft)	5.0		
Water					

Vane dimensions and remarks: (see Page 2)

UNDISTURBED CONDTION				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
Max	65		85	0:02:00	75		27				

SHEAR STRENGTH DETERMINATION		UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$		85	27
Maximum force guage reading for shaft, $H_{(lb)}$		N/A	N/A
Net Force, $F_{(lb)} = V - H$		85	27
Applied torque, $T(in-lb) = F \times \text{Torque Arm (in)}$		1020	324
Shear Strength, $S (psf) = \text{Vane Constant, } K \times T = 1.47 \times T$		1499	476
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} =$		3.15	



VANE SHEAR REPORT

BORING	TEST
No. 2	No. 2
Page 1 of 1	

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	15 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	8.0	Push with rig head.	12
Test	HSA	Vane (ft)	9.5		
Water					

Vane dimensions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:00:38	3		32	0:00:45	5		12				
0:01:18	8		50	0:01:51	10		14				
0:02:04	13		48	0:02:37	15		13				
0:02:51	18		44	0:03:31	20		12				
0:03:44	23		43	0:04:23	25		12				
0:04:23	28		39	0:05:27	30		12				
0:05:14	33		39	0:06:16	35		13				
0:05:56	23		37	0:07:14	40		14				
0:06:32	43		35	0:08:17	45		14				
				0:09:09	50		16				
				0:10:16	55		16				
				0:11:08	60		17				
				0:11:58	65		18				
				0:12:54	70		18				
				0:13:46	75		18				
				0:14:39	80		18				
				0:15:31	85		19				
				0:16:22	90		18				
				0:17:03	95		17				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$	50	19
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	50	19
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	600	228
Shear Strength, $S(\text{psf}) = \text{Vane Constant, } K \times T = 1.47 \times T$	882	335
Sensitivity = $\frac{S_{(\text{undisturbed})}}{S_{(\text{remolde})}} =$	2.63	



VANE SHEAR REPORT

BORING	TEST
No.	No.
3	1
Page 1 of 1	

PROJECT Former Hammond MGP Site **H&A FILE NO.** 12758-030
LOCATION Hammond, IN **PROJECT MGR.** Dave Demis
CLIENT NiSource, Inc. **FIELD REP** Frank Marowitz
CONTRACTOR RD-n-P Drilling **DATE** 17 April 2008
DRILLER Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	6.5	Push with rig head.	12
Test	HSA	Vane (ft)	8.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDTION				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:00	5		20	0:00:39	5		13				
0:01	10		51		10						
0:01:50	15		61	0:01:31	15		17				
0:02:27	20		59	0:02:16	20		18				
0:03:04	25		55	0:03:08	25		19				
0:03:31	30		50	0:04:08	30		19				
0:04:08	35		48	0:05:14	35		19				
0:04:47	40		47	0:06:18	40		19				
0:05:18	45		44	0:07:27	45		19				
0:05:57	50		42	0:08:19	50		19				
0:06:32	55		41	0:09:16	55		19				
0:07:13	60		39	0:10:06	60		19				
0:07:46	65		38	0:10:52	65		19				
0:08:26	70		37	0:11:47	70		19				
0:09:04	75		35	0:12:41	75		18				
0:09:46	80		35	0:13:34	80		18				
0:10:21	85		35	0:14:25	85		18				
0:11:04	90		34	0:15:11	90		18				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, $V_{(lb)}$	61	19
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	61	19
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	732	228
Shear Strength, $S \text{ (psf)} = \text{Vane Constant, } K \times T = 1.47 \times T$	1076	335
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} = \frac{1076}{335} = 3.21$		

VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	17 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	5.0	Push with rig head.	12
Test	HSA	Vane (ft)	6.5		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:00:52	5		24	0:00	5		13				
0:01:38	10		34		10						
0:02:29	15		37	0:01:54	15		13				
0:03:25	20		38	0:02:35	20		14				
0:04:26	25		39	0:03:16	25		14				
0:05:23	30		39	0:03:56	30		15				
0:06:17	35		39		35						
0:07:07	40		38	0:05:17	40		16				
0:08:05	45		36	0:06:19	45		16				
0:08:42	50		35	0:07:02	50		16				
0:09:29	55		34	0:07:49	55		16				
0:10:22	60		33	0:08:27	60		16				
0:11:09	65		32	0:09:15	65		16				
0:11:54	70		30	0:10:13	70		16				
0:12:48	75		30	0:11:04	75		16				
0:13:32	80		30	0:11:48	80		16				
0:14:27	85		29	0:12:31	85		16				
0:15:14	90		29	0:13:18	90		16				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$	39	16
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	39	16
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	468	192
Shear Strength, $S \text{ (psf)} = \text{Vane Constant, } K \times T = 1.47 \times T$	688	282
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolde)}} =$	2.44	

VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	17 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	10.5	Push with rig head.	12
Test	HSA	Vane (ft)	12.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:41	5		32	0:00:41	5		19				
0:01:31	10		47	0:01:26	10		22				
0:02:00	15		54	0:02:16	15		23				
0:02:41	20		55	0:03:02	20		23				
0:03:19	25		54	0:03:47	25		22				
0:03:44	30		51	0:04:36	30		21				
0:04:34	35		48	0:05:39	35		21				
0:05:15	40		46	0:06:31	40		21				
0:06:01	45		44	0:07:16	45		20				
0:06:46	50		42	0:08:07	50		20				
0:07:37	55		40	0:08:44	55		21				
0:08:19	60		39	0:09:29	60		20				
0:08:56	65		38	0:10:17	65		20				
0:09:42	70		37	0:11:14	70		20				
0:10:37	75		36	0:11:56	75		20				
0:11:22	80		36	0:12:41	80		19				
0:12:04	85		36	0:13:37	85		19				
0:12:43	90		36	0:14:22	90		19				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, V _(lb)	55	23
Maximum force guage reading for shaft, H _(lb)	N/A	N/A
Net Force, F _(lb) = V - H	55	23
Applied torque, T(in-lb) = F x Torque Arm (in)	660	276
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T	970	406

Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} = \frac{970}{406} = 2.39$

VANE SHEAR REPORT

BORING No. 5	TEST No. 1
Page 1 of 1	

PROJECT Former Hammond MGP Site	H&A FILE NO. 12758-030
LOCATION Hammond, IN	PROJECT MGR. Dave Demis
CLIENT NiSource, Inc.	FIELD REP Frank Marowitz
CONTRACTOR RD-n-P Drilling	DATE 21 April 2008
	DRILLER Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	3.5	Push with rig head.	12
Test	HSA	Vane (ft)	5.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:01:06	5		8		5						
0:02:02	10		11	0:02:41	10		4				
0:03:09	15		12		15						
0:04:10	20		12	0:03:58	20		4				
0:05:05	25		12	0:04:40	25		4				
0:06:24	30		13	0:05:48	30		4				
0:07:38	35		13	0:06:39	35		4				
0:08:39	40		13	0:07:43	40		4				
0:09:40	45		13	0:08:37	45		4				
0:11:09	50		13	0:09:37	50		4				
0:12:03	55		13	0:10:35	55		5				
0:12:50	60		12	0:11:47	60		5				
0:13:48	65		11		65						
0:14:50	70		11	0:12:11	70		5				
0:15:57	75		11	0:12:58	75		5				
0:16:55	80		11	0:14:02	80		5				
0:17:55	85		11	0:15:11	85		5				
0:18:58	90		11	0:16:01	90		5				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, V _(lb)	13	5
Maximum force guage reading for shaft, H _(lb)	N/A	N/A
Net Force, F _(lb) = V - H	13	5
Applied torque, T(in-lb) = F x Torque Arm (in)	156	60
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T	229	88

Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}}$ = 2.60
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VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	22 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	8.5	Push with rig head.	12
Test	HSA	Vane (ft)	10.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
	5			0:01:08	5		3				
0:02:09	10		12	0:02:14	10		4				
0:03:24	15		12	0:03:19	15		4				
0:04:22	20		12	0:04:09	20		4				
0:05:31	25		12	0:05:04	25		4				
0:06:36	30		12	0:06:06	30		4				
	35			0:07:23	35		4				
0:08:31	40		11	0:08:17	40		5				
0:09:38	45		11	0:09:32	45		5				
0:10:34	50		10	0:10:28	50		5				
0:11:36	55		10	0:11:42	55		5				
	60			0:12:26	60		5				
0:13:21	65		10	0:13:33	65		5				
0:14:32	70		10	0:14:43	70		5				
0:15:31	75		10	0:15:44	75		5				
0:16:26	80		10	0:16:40	80		5				
0:17:14	85		10	0:17:19	85		5				
0:18:05	90		10	0:18:08	90		5				

SHEAR STRENGTH DETERMINATION		UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, V _(lb)		12	5
Maximum force guage reading for shaft, H _(lb)		N/A	N/A
Net Force, F _(lb) = V - H		12	5
Applied torque, T(in-lb) = F x Torque Arm (in)		144	60
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T		212	88
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} = \frac{212}{88} = 2.40$			

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	22 April 2008
		DRILLER	Richard Eger

Location See Plan	Soil Description ORGANIC-SOILS
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Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	6.0	Push with rig head.	12
Test	HSA	Vane (ft)	7.5		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:00:48	5		14	0:00:47	5		5				
0:01:53	10		22	0:01:49	10		5				
0:02:47	15		24	0:02:48	15		5				
0:03:49	20		25	0:03:34	20		5				
0:04:39	25		23	0:04:26	25		5				
0:05:34	30		22	0:05:21	30		5				
0:06:19	35		22	0:06:19	35		5				
0:07:17	40		21		40						
0:08:04	45		19	0:08:12	45		5				
0:09:02	50		19	0:08:57	50		5				
0:10:04	55		18	0:09:41	55		5				
0:11:13	60		17		60						
0:12:04	65		17	0:11:36	65		5				
0:13:17	70		16	0:12:32	70		5				
0:14:14	75		15	0:13:31	75		5				
0:15:24	80		15	0:14:11	80		5				
0:16:26	85		15	0:15:12	85		5				
0:17:26	90		15	0:15:56	90		5				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, V _(lb)	25	5
Maximum force guage reading for shaft, H _(lb)	N/A	N/A
Net Force, F _(lb) = V - H	25	5
Applied torque, T(in-lb) = F x Torque Arm (in)	300	60
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T	441	88
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}}$ =	5.00	



VANE SHEAR REPORT

BORING	TEST
No.	No.
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PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	22 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	10.0	Push with rig head.	12
Test	HSA	Vane (ft)	11.5		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:00:56	5		23	0:00:53	5		8				
0:01:34	10		33	0:01:41	10		8				
0:02:17	15		35	0:02:18	15		9				
0:03:02	20		35	0:02:54	20		9				
0:03:37	25		35	0:03:45	25		9				
0:04:03	30		34	0:04:20	30		9				
0:04:58	35		34	0:05:11	35		9				
0:05:47	40		33	0:06:02	40		9				
0:06:30	45		30	0:06:53	45		9				
0:07:14	50		27	0:07:34	50		9				
0:08:03	55		26	0:08:10	55		9				
0:08:38	60		26	0:08:49	60		9				
0:09:28	65		24	0:09:43	65		9				
0:10:13	70		22	0:10:37	70		9				
0:11:09	75		22	0:11:25	75		9				
	80			0:12:06	80		9				
0:12:26	85		21	0:12:52	85		9				
0:13:08	90		20	0:13:39	90		9				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$	35	9
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	35	9
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	420	108
Shear Strength, $S \text{ (psf)} = \text{Vane Constant, } K \times T = 1.47 \times T$	617	159
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} =$		3.89

VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	22 April 2008
		DRILLER	Richard Eger

Location	See Plan	Soil Description	ORGANIC-SOILS
Elevation:	Casing Size:	Depth to bottom of:	Method used to advance vane:
Ground	4.25 in.	Casing (ft)	2.5
Test	HSA	Vane (ft)	4.0
Water			
			Torque arm length (in):
			12 Undisturbed Cond.
			6 Remolded Cond.

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:01:13	5		15	0:00:39	5		8				
0:01:56	10		19	0:01:24	10		10				
0:02:42	15		20	0:02:03	15		10				
	20				20						
0:04:07	25		21	0:03:27	25		10				
0:04:52	30		22	0:04:26	30		10				
0:05:46	35		21	0:05:08	35		11				
0:06:27	40		20	0:06:13	40		13				
0:7:11	45		19	0:07:15	45		13				
0:08:03	50		18	0:08:25	50		13				
0:09:00	55		17	0:09:20	55		13				
0:09:47	60		16	0:10:12	60		13				
0:10:36	65		16		65						
0:11:27	70		15	0:12:22	70		12				
0:12:08	75		15		75						
0:13:03	80		15	0:13:50	80		12				
0:13:57	85		14	0:14:33	85		12				
0:14:56	90		14	0:15:37	90		11				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$	22	13
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	22	13
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	264	78
Shear Strength, $S(\text{psf}) = \text{Vane Constant, } K \times T = 1.47 \times T$	388	115
Sensitivity = $\frac{S_{(\text{undisturbed})}}{S_{(\text{remolded})}} =$		3.38

VANE SHEAR REPORT

BORING	TEST
No.	No.
7	2
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PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	23 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	7.5	Push with rig head.	6
Test	HSA	Vane (ft)	9.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:01:18	5		33	0:00	5		12				
0:02:12	10		29	0:01:37	10		12				
0:03:04	15		40	0:02:25	15		13				
0:04:00	20		40	0:03:16	20		14				
0:04:57	25		40	0:04:11	25		14				
0:05:55	30		40	0:05:03	30		14				
0:06:47	35		40	0:05:56	35		14				
0:07:57	40		39	0:06:42	40		14				
0:09:03	45		39	0:07:33	45		14				
0:09:46	50		39	0:08:42	50		15				
0:10:40	55		38	0:09:31	55		15				
0:11:32	60		37	0:10:13	60		16				
0:12:39	65		37	0:10:56	65		16				
0:13:34	70		36	0:11:49	70		16				
0:14:38	75		36	0:12:42	75		16				
0:15:40	80		36	0:13:45	80		16				
0:16:22	85		36	0:14:22	85		16				
0:17:09	90		36	0:15:17	90		16				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, V _(lb)	40	16
Maximum force guage reading for shaft, H _(lb)	N/A	N/A
Net Force, F _(lb) = V - H	40	16
Applied torque, T(in-lb) = F x Torque Arm (in)	240	96
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T	353	141
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}}$ = $\frac{\quad}{\quad}$ = 2.50		

VANE SHEAR REPORT

BORING	TEST
No. 8	No. 1
Page 1 of 1	

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	23 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	4.0	Push with rig head.	6
Test	HSA	Vane (ft)	6.5		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOVED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:01:04			45	0:00:41			15				
0:01:53			56	0:01:27			19				
0:02:36			61	0:02:06			19				
0:03:24			63	0:02:46			20				
0:04:04			65	0:03:27			20				
0:04:50			67	0:04:09			20				
0:05:37			68								
				0:05:50			21				
0:07:02			69	0:06:37			21				
0:07:43			66	0:07:28			21				
0:08:24			62	0:08:11			21				
0:09:03			60								
				0:09:24			21				
0:10:36			55	0:10:32			21				
0:11:24			51	0:11:40			21				
0:12:16			50	0:12:19			21				
0:13:08			49	13:07			20				
0:14:15			48	0:14:35			20				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOVED
Maximum force guage reading for vane, V _(lb)	69	21
Maximum force guage reading for shaft, H _(lb)	N/A	N/A
Net Force, F _(lb) = V - H	69	21
Applied torque, T(in-lb) = F x Torque Arm (in)	414	126
Shear Strength, S (psf) = Vane Constant, K x T = 1.47 x T	609	185
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}}$ = $\frac{609}{185}$ = 3.29		

VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	23 April 2008
		DRILLER	Richard Eger

Location	See Plan	Soil Description	ORGANIC-SOILS
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Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	9.5	Push with rig head.	6
Test	HSA	Vane (ft)	11.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICITION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:01:04	5		41	0:00:40	5		18				
0:02:02	10		67	0:01:21	10		20				
0:03:09	15		76	0:02:15	15		22				
0:03:57	20		77	0:03:06	20		23				
0:04:45	25		75	0:03:58	25		25				
0:05:26	30		75	0:04:52	30		25				
0:06:21	35		74	0:05:45	35		25				
0:07:04	40		72	0:06:34	40		26				
0:07:41	45		70	0:07:26	45		26				
0:08:28	50		68	0:08:19	50		26				
0:09:17	55		65	0:09:12	55		25				
0:10:06	60		63	0:09:57	60		26				
0:11:14	65		59	0:10:41	65		25				
0:11:51	70		58	0:11:47	70		25				
0:12:37	75		54	0:12:36	75		24				
0:13:24	80		53	0:13:44	80		25				
0:14:16	85		52	0:14:50	85		24				
0:15:03	90		51	0:15:40	90		24				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$	77	26
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	77	26
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	462	156
Shear Strength, $S \text{ (psf)} = \text{Vane Constant, } K \times T = 1.47 \times T$	679	229
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolde)}} = \frac{679}{229} = 2.96$		

VANE SHEAR REPORT

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	23 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	3.5	Push with rig head.	6
Test	HSA	Vane (ft)	5.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:00	5		41	0:00:38	5		8				
0:01	10		50	0:01:18	10		8				
0:02:54	15		51	0:02:12	15		8				
0:03:58	20		54	0:03:36	20		8				
0:04:56	25		53	0:04:49	25		7				
0:06:07	30		53	0:05:32	30		9				
0:07:09	35		53	0:06:16	35		8				
0:08:11	40		51	0:07:07	40		9				
0:09:13	45		49	0:07:59	45		9				
0:10:14	50		49		50						
0:11:01	55		48	0:09:29	55		10				
0:11:59	60		47		60						
0:12:52	65		45	0:11:16	65		10				
0:13:40	70		45	0:12:14	70		10				
0:14:36	75		43	0:13:06	75		11				
0:15	80		43	0:13:56	80		11				
0:16:41	85		41	0:14:52	85		11				
0:17:36	90		42	0:16:07	90		11				

SHEAR STRENGTH DETERMINATION		UNDISTURBED	REMOLDED
Maximum force guage reading for vane, $V_{(lb)}$		54	11
Maximum force guage reading for shaft, $H_{(lb)}$		N/A	N/A
Net Force, $F_{(lb)} = V - H$		54	11
Applied torque, $T(\text{in}\cdot\text{lb}) = F \times \text{Torque Arm (in)}$		324	66
Shear Strength, $S(\text{psf}) = \text{Vane Constant, } K \times T = 1.47 \times T$		476	97
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} = \frac{476}{97} = 4.91$			



VANE SHEAR REPORT

BORING	TEST
No. 9	No. 2
Page 1 of 1	

PROJECT	Former Hammond MGP Site	H&A FILE NO.	12758-030
LOCATION	Hammond, IN	PROJECT MGR.	Dave Demis
CLIENT	NiSource, Inc.	FIELD REP	Frank Marowitz
CONTRACTOR	RD-n-P Drilling	DATE	23 April 2008
		DRILLER	Richard Eger

Location See Plan **Soil Description** ORGANIC-SOILS

Elevation:	Casing Size:	Depth to bottom of:		Method used to advance vane:	Torque arm length (in):
Ground	4.25 in.	Casing (ft)	8.5	Push with rig head.	6
Test	HSA	Vane (ft)	11.0		
Water					

Vane dimentions and remarks: (see Page 2)

UNDISTURBED CONDITON				REMOLEDDED CONDITION				FRICTION OF VANE SHAFT			
Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings		Time	Angular Rotation	Force Guage Readings	
(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)	(min:sec)	(degrees)	(div)	(lbs)
0:00	0	0	0	0:00	0	0	0	N/A			
0:01:03	5		22		5						
0:01:52	10		27	0:01:52	10		21				
0:02:43	15		38	0:02:41	15		24				
0:03:54	20		41	0:03:34	20		24				
0:04:51	25		41	0:04:26	25		24				
0:06:05	30		42	0:05:27	30		24				
0:06:47	35		43	0:06:21	35		24				
	40				40						
0:08:20	45		44	0:07:53	45		20				
0:09:17	50		45	0:08:41	50		15				
0:10:03	55		44	0:09:23	55		13				
0:11:04	60		45	0:10:03	60		14				
0:11:50	65		15		65						
	70			0:11:43	70		14				
0:13:28	75		46	0:12:26	75		15				
0:15:18	80		47	0:13:08	80		15				
0:16:06	85		48	0:13:54	85		15				
0:16:47	90		48	0:14:39	90		16				

SHEAR STRENGTH DETERMINATION	UNDISTURBED	REMOLEDDED
Maximum force guage reading for vane, $V_{(lb)}$	48	24
Maximum force guage reading for shaft, $H_{(lb)}$	N/A	N/A
Net Force, $F_{(lb)} = V - H$	48	24
Applied torque, $T(\text{in-lb}) = F \times \text{Torque Arm (in)}$	288	144
Shear Strength, $S(\text{psf}) = \text{Vane Constant, } K \times T = 1.47 \times T$	423	212
Sensitivity = $\frac{S_{(undisturbed)}}{S_{(remolded)}} = \frac{423}{212} = 2.00$		

APPENDIX B

Well Abandonment Forms



RECORD OF WATER WELL
State Form 35680 (R5 / 8-04)

Driller-Must complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204-2641
(877) 928-3755 (toll-free) or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION <i>MW-4</i>								
County where drilled LAKE	Civil township name NORTH	Township number (N-S)	Range number (E-W)	Section				
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side.			UTM Northing					
			UTM Easting					
			Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83					
			GPS used					
			Subdivision name & lot number (if applicable)					
Well address: 4923 N. Homan Hammond IN								
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole								
OWNER - CONTRACTOR								
Well owner-name NIPSCO				Telephone number				
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410								
Building contractor-name		Address (number and street, city, state, ZIP code)		Telephone number				
Drilling contractor-name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868				
Equipment operator-name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07				
CONSTRUCTION DETAILS			WELL LOG					
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____	Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____	Types of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other: _____	Pump depth setting (feet)	FORMATIONS: Type of material		From (feet)	To (feet)	
Total depth of well (feet)	Borehole diameter (in.)	Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No						
Casing length (feet)	Casing diameter (in.)	Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel						
Screen length (feet)	Screen diameter (in.)	Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel						
Screen slot size	Water quality (clear, odor, etc.)							
WELL CAPACITY TEST								
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet				
GROUTING		WELL ABANDONMENT						
Grout material	Grout depth from to	Sealing material COARSE BENTONITE 0-121	Depth filled from to					
Installation method	No. of bags used	Installation method Pour	No. of bags used #					
Additional space for well log and comments on reverse side								
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.		Signature of drilling contractor or authorized representative T. Zwolinski					Date 11/17/07	



RECORD OF WATER WELL
State Form 35680 (R5/0-04)

Driller-Must complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St. Rm. W264
Indianapolis, IN 46204-2841
(877) 928-3755 toll-free or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION MW-3				
County where drilled LAKE	Civil township name NORTH	Township number (N-S)	Range number (E-W)	Section
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side.			UTM Northing	
			UTM Easting	
			Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83	
			GPS used	
			Subdivision name & lot number (if applicable)	
Well address: 4923 N. Homan Hammond IN				
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole				
OWNER - CONTRACTOR				
Well owner-name NIPSCO			Telephone number	
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410				
Building contractor-name		Address (number and street, city, state, ZIP code)		Telephone number
Drilling contractor-name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868
Equipment operator-name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07
CONSTRUCTION DETAILS			WELL LOG	
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other:	Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other:	Type of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other:	FORMATIONS: Type of material	
Total depth of well (feet) Casing length (feet) Screen length (feet) Screen slot size			From (feet) To (feet)	
Borehole diameter (in.) Casing diameter (in.) Screen diameter (in.) Water quality (clear, odor, etc.)				
Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No				
Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel				
Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel				
WELL CAPACITY TEST				
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet
Additional space for well log and comments on reverse side				
GROUTING		WELL ABANDONMENT		
Grout material	Grout depth from to	Sealing material Course Bentonite	Depth filled from to 0-18	
Installation method	No. of bags used	Installation method pour	No. of bags used 1	
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.		Signature of drilling contractor or authorized representative T. Zwolinski		Date 11/17/07



RECORD OF WATER WELL
State Form 35680 (R5 / 9-04)

Order-Mail complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St. Rm. W264
Indianapolis, IN 46204-2641
(877) 928-3755 toll-free or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION <i>MW-1</i>					
County where drilled LAKE		Civil township name NORTH		Township number (N-S)	Range number (E-W) Section
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. Well address: 4923 N. Homan Hammond IN				UTM Northing	
				UTM Easting	
				Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83	
				GPS used	
Subdivision name & lot number (if applicable)					
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole					
OWNER - CONTRACTOR					
Well owner-name NIPSCO				Telephone number	
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410					
Building contractor-name		Address (number and street, city, state, ZIP code)		Telephone number	
Drilling contractor-name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868	
Equipment operator-name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07	
CONSTRUCTION DETAILS			WELL LOG		
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____		Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____		Type of pump	
				FORMATIONS: Type of material	
Total depth of well (feet)		Borehole diameter (in.)		From (feet) To (feet)	
Casing length (feet)		Casing diameter (in.)		To (feet)	
Screen length (feet)		Screen diameter (in.)		To (feet)	
Screen slot size		Water quality (clear, odor, etc.)		To (feet)	
WELL CAPACITY TEST					
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet	
GROUTING			WELL ABANDONMENT		
Grout material	Grout depth from to	Sealing material COARSE Bestonite	Depth filled from to 0-181		
Installation method	No. of bags used	Installation method Pour	No. of bags used 1		
Additional space for well log and comments on reverse side					
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.			Signature of drilling contractor or authorized representative T. Zwolinski		Date 11/17/07



RECORD OF WATER WELL
State Form 35690 (R5 / 9-04)

Driller—Must complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St. Rm. W264
Indianapolis, IN 46204-2841
(877) 928-3755 toll-free or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION MW - 11																																														
County where drilled LAKE		Civil township name NORTH		Township number (N-S)	Range number (E-W) Section																																									
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. Well address: 4923 N. Homan Hammond IN				UTM Northing																																										
				UTM Easting																																										
				Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83																																										
				GPS used																																										
Subdivision name & lot number (if applicable)																																														
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole																																														
OWNER - CONTRACTOR																																														
Well owner—name NIPSCO				Telephone number																																										
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410																																														
Building contractor—name		Address (number and street, city, state, ZIP code)		Telephone number																																										
Drilling contractor—name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868																																										
Equipment operator—name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07																																										
CONSTRUCTION DETAILS			WELL LOG																																											
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____		Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____		Type of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other: _____		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">FORMATIONS: Type of material</th> <th style="text-align: center;">From (feet)</th> <th style="text-align: center;">To (feet)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	FORMATIONS: Type of material		From (feet)	To (feet)																																				
FORMATIONS: Type of material		From (feet)	To (feet)																																											
Total depth of well (feet)		Borehole diameter (in.)		Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No																																										
Casing length (feet)		Casing diameter (in.)		Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel																																										
Screen length (feet)		Screen diameter (in.)		Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel																																										
Screen slot size		Water quality (clear, odor, etc.)																																												
WELL CAPACITY TEST																																														
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet																																										
GROUTING			WELL ABANDONMENT																																											
Grout material		Grout depth from to		Sealing material COARSE Bentonite																																										
Installation method		No. of bags used		Depth filled from to 0-15'																																										
Additional space for well log and comments on reverse side																																														
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.		Signature of drilling contractor or authorized representative T. Zwolinski			Date 11/17/07																																									



RECORD OF WATER WELL
State Form 35690 (R5 / 9-04)

Order-Mail complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204-2641
(877) 929-3755 (toll-free) or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION <i>MW-12</i>							
County where drilled LAKE	Civil township name NORTH	Township number (N-S)	Range number (E-W)	Section			
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. Well address: 4923 N. Homan Hammond IN			UTM Northing				
			UTM Easting				
			Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83				
			GPS used				
Subdivision name & lot number (if applicable)							
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole							
OWNER - CONTRACTOR							
Well owner-name NIPSCO					Telephone number		
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410							
Building contractor-name		Address (number and street, city, state, ZIP code)		Telephone number			
Drilling contractor-name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868			
Equipment operator-name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07			
CONSTRUCTION DETAILS			WELL LOG				
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____	Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____	Type of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other: _____ Pump depth setting (feet)	FORMATIONS: Type of material			From (feet)	To (feet)
Total depth of well (feet)	Borehole diameter (in.)	Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No					
Casing length (feet)	Casing diameter (in.)	Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel					
Screen length (feet)	Screen diameter (in.)	Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel					
Screen slot size	Water quality (clear, odor, etc.)						
WELL CAPACITY TEST							
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet			
GROUTING			WELL ABANDONMENT				
Grout material	Grout depth from to	Sealing material COARSE Bentonite	Depth filled from to 0-15'				
Installation method	No. of bags used	Installation method	No. of bags used				
Additional space for well log and comments on reverse side							
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.		Signature of drilling contractor or authorized representative T. Zwolinski				Date 11/17/07	



RECORD OF WATER WELL
State Form 35680 (RS / 8-04)

Order-Mail complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St. Rm. W264
Indianapolis, IN 46204-2841
(877) 928-3755 toll-free or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION MW-6				
County where drilled LAKE	Civil town/No name NORTH	Township number (N-S)	Range number (E-W)	Section
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. Well address: 4923 N. Homan Hammond IN			UTM Northing	
			UTM Easting	
			Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83	
			GPS used	
Subdivision name & lot number (if applicable)				
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole				
OWNER - CONTRACTOR				
Well owner-name NIPSCO			Telephone number	
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410				
Building contractor-name		Address (number and street, city, state, ZIP code)		Telephone number
Drilling contractor-name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868
Equipment operator-name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07
CONSTRUCTION DETAILS			WELL LOG	
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____	Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____	Type of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other: _____	FORMATIONS: Type of material	
Pump depth setting (feet)				
Total depth of well (feet)	Borehole diameter (in.)	Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No		
Casing length (feet)	Casing diameter (in.)	Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel		
Screen length (feet)	Screen diameter (in.)	Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel		
Screen slot size	Water quality (clear, odor, etc.)			
WELL CAPACITY TEST				
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet
GROUTING		WELL ABANDONMENT		
Grout material	Grout depth from to	Sealing material Bentonite COARSE	Depth filled from to 0-11"	
Installation method	No. of bags used	Installation method Pour	No. of bags used 1	
Additional space for well log and comments on reverse side				
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.		Signature of drilling contractor or authorized representative T. Zwolinski		Date 11/17/07



RECORD OF WATER WELL
State Form 35680 (R5 / 9-04)

Driller—Must complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204-2841
(877) 928-3755 (toll-free) or (317) 232-4160

County Permit Number
DNR Variance Number

Fill in completely.

WELL LOCATION MW-2																																														
County where drilled LAKE		Civil township name NORTH		Township number (N-S)	Range number (E-W) Section																																									
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side. Well address: 4923 N. Homan Hammond IN				UTM Northing																																										
				UTM Easting																																										
				Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83																																										
				GPS used																																										
Subdivision name & lot number (if applicable)																																														
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole																																														
OWNER - CONTRACTOR																																														
Well owner name NIPSCO				Telephone number																																										
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410																																														
Building contractor name		Address (number and street, city, state, ZIP code)		Telephone number																																										
Drilling contractor name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868																																										
Equipment operator name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07																																										
CONSTRUCTION DETAILS			WELL LOG																																											
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____		Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____		Type of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other: _____		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">FORMATIONS: Type of material</th> <th style="text-align: center;">From (feet)</th> <th style="text-align: center;">To (feet)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	FORMATIONS: Type of material		From (feet)	To (feet)																																				
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Casing length (feet)		Casing diameter (in.)		Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel																																										
Screen length (feet)		Screen diameter (in.)		Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel																																										
Screen slot size		Water quality (clear, odor, etc.)																																												
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Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping		Static level below surface feet		Gallons per min. Hours tested Drawdown (change in level) feet																																										
GROUTING			WELL ABANDONMENT																																											
Grout material		Grout depth from to		Sealing material COARSE Bestcrete																																										
Installation method		No. of bags used		Depth filled from to 10-19																																										
				Installation method Pour																																										
				No. of bags used 1																																										
Additional space for well log and comments on reverse side																																														
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.				Signature of drilling contractor or authorized representative T. Zwolinski																																										
				Date 11/17/07																																										



RECORD OF WATER WELL
State Form 35680 (R5 / 9-04)

Driller—Mail complete record in 30 days to:
INDIANA DEPT. OF NATURAL RESOURCES
Division of Water
402 W. Washington St., Rm. W264
Indianapolis, IN 46204-2841
(877) 828-3765 toll-free or (317) 232-4160

County Permit Number
DNR Variance Number
Include if applicable

Fill in completely

WELL LOCATION QST MW-8					
County where drilled LAKE	Civil township name NORTH	Township number (N-S)	Range number (E-W)	Section	
Driving directions to the well location (include trip origin, street & road names, intersecting roads, and compass directions). Show well address below and subdivision in box at lower right. There is space for a map on the reverse side.			UTM Northing		
			UTM Easting		
			Datum <input type="checkbox"/> NAD 27 <input type="checkbox"/> NAD 83		
			GPS used		
Well address: 4923 N. Homan Hammond IN			Subdivision name & lot number (if applicable)		
If drilled for water supply, this well is: <input type="checkbox"/> First well on property <input type="checkbox"/> Replacement well <input type="checkbox"/> Additional well on property <input type="checkbox"/> Dry hole					
OWNER - CONTRACTOR					
Well owner—name NIPSCO				Telephone number	
Address (number and street, city, state, ZIP code) 801 N 86th Ave Merrillville IN 46410					
Building contractor—name		Address (number and street, city, state, ZIP code)		Telephone number	
Drilling contractor—name RW Collins		Address (number and street, city, state, ZIP code) 7225 W 66th St Chgo IL		Telephone number 708458 6868	
Equipment operator—name Ted Zwolinski		License number of operator 1156		Date of well completion 11-17-07	
CONSTRUCTION DETAILS			WELL LOG		
Use of well <input type="checkbox"/> Home <input type="checkbox"/> Public supply <input type="checkbox"/> Industrial / commercial <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Monitoring / environ. <input type="checkbox"/> Test hole Other: _____	Drilling method <input type="checkbox"/> Rotary <input type="checkbox"/> Reverse rotary <input type="checkbox"/> Cable tool <input type="checkbox"/> Jet <input type="checkbox"/> Bucket / bore <input type="checkbox"/> Auger (including HSA) <input type="checkbox"/> Direct push Other: _____	Type of pump <input type="checkbox"/> Submersible <input type="checkbox"/> Shallow-well jet <input type="checkbox"/> Deep-well jet <input type="checkbox"/> No pump installed Other: _____	FORMATIONS: Type of material	From (feet)	To (feet)
Total depth of well (feet)	Borehole diameter (in.)	Gravel pack inserted <input type="checkbox"/> Yes <input type="checkbox"/> No			
Casing length (feet)	Casing diameter (in.)	Casing material <input type="checkbox"/> PVC <input type="checkbox"/> Steel			
Screen length (feet)	Screen diameter (in.)	Screen material <input type="checkbox"/> PVC <input type="checkbox"/> Steel			
Screen slot size	Water quality (clear, odor, etc.)				
WELL CAPACITY TEST					
Test method <input type="checkbox"/> Air <input type="checkbox"/> Bailing <input type="checkbox"/> Pumping	Static level below surface feet	Gallons per min.	Hours tested	Drawdown (change in level) feet	
GROUTING			WELL ABANDONMENT		
Grout material	Grout depth from to	Sealing material GRAPSE Bentonite	Depth filled from to 0-14'		
Installation method	No. of bags used	Installation method POUR	No. of bags used 1		
I hereby swear or affirm, under the penalties for perjury, that the information submitted herewith is, to the best of my knowledge and belief, true, accurate, and complete.					
Signature of drilling contractor or authorized representative T. Zwolinski				Date 11/17/07	

Additional space for well log and comments on reverse side

APPENDIX C

Daily Field Reports (HADC)



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 004
Date 10-25-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 52

Temp (°F): 58

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See sign in sheets on file.

Rw. Collins

4*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Completed fence repairs and worked on fabric installation.
3. Worked on suspect UST.

Meetings Tailgate safety meeting.

Events Suspect UST discovered. Concrete layer prevented confirmation.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 004
Date 10-25-07
Page 2 of 2
File No. 12758-020





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 005
Date 10-26-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 60

Temp (°F): 65

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

1*

Homer Tree Service

6*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Mobile mini container arrived.
3. Homer Tree service began cutting down and chipping all trees on site.
4. Tree cutting, on site hauling, and chipping was complete by 16:00.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 005
Date 10-26-07
Page 2 of 2
File No. 12758-020

ATTACHMENTS:





Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 006
Date 10-27-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:
No Haley & Aldrich employees on site today.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 52

Temp (°F): 57

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Homer Tree Service

3*

RW Collins

1*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Homer Tree Service on site to complete stump grinding and haul away tree trunks.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 006
Date 10-27-07
Page 2 of 2
File No. 12758-020





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 007
Date 10-29-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 60

Temp (°F): 65

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file

Rw. Collins

5*

Homer Tree Service

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Separation of tires and metal debris.
3. Fabric finished on east and southern fence line.
4. Abandoned M/W #7.
5. Tar well protected with a snow fence.
6. Continued removal of concrete.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 007
Date 10-29-07
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 008
Date 10-30-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 60

Temp (°F): 64

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See sign in sheet on file

Rw. Collins

5*

Nipsco

2*

Focus

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Worked on finding M/W #8.
3. Continued separation of debris piles.
4. Continued loading and stripping of surface concrete.
5. Prepared area for contaminated material to be mixed and staged.

Meetings Tailgate safety meeting. In addition kickoff meeting for site.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 008
Date 10-30-07
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 010
Date 11-01-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure. Conducted test pitting for soil disposal analysis.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 50

Temp (°F): 57

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file

Rw. Collins

5*

FRAF

2*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Clearing debris along the river so temporary fence and silt fence can be installed.
3. Remove M/W # 8, 6, 9.
4. Federal Fence arrived and put up fence.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 010
Date 11-01-07
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 010
Date 11-01-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
- 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 50

Temp (°F): 55

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

5*

FRAF

2*

II. CONTRACTOR’S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. Continued concrete removal.
- 3. Federal fence completed fence construction.
- 4. Pulled up a few pieces of concrete with bluish staining, will be staged in contaminated area.

Meetings Tailgate safety meeting.

Events Bluish stained concrete discovered.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 010
Date 11-01-07
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 011
Date 11-02-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Keith Aragona: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 50

Temp (°F): 55

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

5*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing
2. Continued removal of concrete.
3. Began silt fence.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Keith Aragona: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:

Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 011
Date 11-02-07
Page 2 of 2
File No. 12758-020





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 012
Date 11-05-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 50

Temp (°F): 43

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

4*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Silt fence construction completed.
3. Tires and debris are continuing to be separated.
4. Concrete removed.

Meetings Tailgate safety meeting.

Events Nipsco arrives with power pole and installs on site.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

ATTACHMENTS:

Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 012
Date 11-05-07
Page 2 of 2
File No. 12758-020





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 013
Date 11-06-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 55

Temp (°F): 50

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: NNW

Wind Direction: W

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file

Rw. Collins

5*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Continued separation of tires along the river.
3. Removed utility poles.
4. Second gate added to ease larger truck access.
5. Unloaded Envirocon supply truck.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 013
Date 11-06-07
Page 2 of 2
File No. 12758-020

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 014
Date 11-07-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 40

Temp (°F): 46

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: N

Wind Direction: NE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

5*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Continued processing of tires and tire rims.
3. Filled 2 containers of asbestos pipe and soil. Asbestos remains to be loaded.
4. Eye wash stations and a first aid kit have been installed in the trailer.

Meetings Tailgate safety meeting.

Events Asbestos debris cleaned up.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

ATTACHMENTS:

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 014
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 015
Date 11-08-07
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg A Mowatt: Construction oversight, Health and safety officer. Continued setup of infrastructure.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 40

Temp (°F): 46

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: SE

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

6*

Envirocon

1*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Continued removal of foundation
3. Digging test pits for wall location surveying, and loading scrap into scrap box.
4. Removal of more monitoring wells.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 015
Date 11-08-07
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ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 016
Date 11-09-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 52

Temp (°F): 55

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: SW

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

5*

Envirocon

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued removal of concrete.
3. Preparing area for Envirocon to stabilize the building pad.
4. Dug a test pit for Envirocon along the river.
5. Temp power hook up complete.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 016
Date 11-09-07
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File No. 12758-020

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 017
Date 11-12-07
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 52

Temp (°F): 53

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: SW

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

5*

Envirocon

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued removal of concrete.
3. Continued asbestos clean up.

Meetings Tailgate safety meeting.

Events 13:20-Gas main hit-2 hours before Nipsco came and shut it off.-Fire department arrived as well.

Complications Gas main stopped work for 2 hours.

Change Orders None.

Safety Issues	Gas Main Break- High Concentrations of natural gas in air. 911/Nipsco and housing authority across street were called immediately after line break. All work stopped.
----------------------	---



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 017
Date 11-12-07
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File No. 12758-020

Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 018
Date 11-13-07
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File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 58

Temp (°F): 63

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheet on file.

Rw. Collins

5*

Envirocon

3*

Sevee Maher

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued removal of concrete.
3. Envirocon unloads multiple trucks of supplies.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

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Date 11-13-07
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Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:





Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 000
Date
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F):

Temp (°F):

Wind Speed (mph): n/a

Wind Speed (mph): n/a

Wind Direction: n/a

Wind Direction: n/a

Equipment and Laborers on site:

Contractor

Crew of * See Sign in sheets on file.

Rw. Collins

6*

Envirocon

5*

SME

1*

Sevee Maher

1*

WT surveying

2*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing
2. Continued removal of concrete pads and foundations, off site to crushers.
3. Grading high area in S.E corner to the south to raise elevation in building soil stabilization area.
4. Envirocon setting up batch plant in designated location on site.

Meetings None.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

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Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Continued removal of concrete.



Site grading in preparation for slurry wall.



Continued site grading.



Envirocon begins to set up batch plant.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 021
Date Nov 16th 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg A Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 36

Temp (°F): 38

Wind Speed (mph): 10

Wind Speed (mph): 8

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

3*

SME

1*

WT surveying

2*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Surveyors completed Slurry wall location, Treatment building foundation / Soil stabilization location and location of the Tar well borings from the Marbach & Brady control survey 6-8-98.
3. Envirocon completed soil stabilization in two of six 15'x15' areas.
4. Continued site grading in preparation for slurry wall.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 021
Date Nov 16th 2007
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Field Representative(s)

Greg A Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Construction, Inc.

ATTACHMENTS:



Surveyor's working.



Continued site grading.



Concrete truck off loading cement mix.



Excavator mixing cement with excavated soils.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 022
Date Nov 17th 2007
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I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Dave Demas: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 45

Temp (°F): 49

Wind Speed (mph): 8

Wind Speed (mph): 8

Wind Direction: SSE

Wind Direction: SSE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

3*

SME

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Complete soil stabilization of third 15’ x15’ area.
3. Pre trenching in preparation for slurry wall.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

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Field Representative(s)

Dave Demas: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Pre-trenching for slurry wall.



Pre-trenching for slurry wall.



Envirocon Soil stabilization Excavation



Envirocon Staging HDPE pipe on site.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 023
Date Nov 19th 2007
Page 1 of 3
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 46

Temp (°F): 59

Wind Speed (mph): 10

Wind Speed (mph): 10

Wind Direction: E

Wind Direction: E

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

3*

SME

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon completes final 3 – 15’x15’ soil stabilization excavation.
3. Continued pre-trenching.
4. Continued test pitting for tar well, unable to locate any structures.
5. Foam machine and decon pad arrived on site.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 023
Date Nov 19th 2007
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Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Envirocon mixing cement & soil for stabilization.



Concrete truck off loading cement for soil stabilization.



Envirocon excavating final 15'X15' stabilization area.



Test pitting for tar well, Trough only structure found.

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

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Odor controlling foam machine arrives.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 024
Date Nov 20th 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 46

Temp (°F): 42

Wind Speed (mph): 16

Wind Speed (mph): 18

Wind Direction: NE

Wind Direction: NE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

2*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins continued pre-trenching.
3. Envirocon continued removal of 3' deep tire/debris, swap to soil borrow atop berm to the south.
4. RW Collins located tar well.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

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Date Nov 20th 2007
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Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Tar well located



Tar well



Continued pre-trenching



Tar well identified. Temp capped and secured



Continued removal of debris/tires.



Continued removal of debris/tires.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 025
Date Nov 21st 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 60

Temp (°F): 64

Wind Speed (mph): 8

Wind Speed (mph): 10

Wind Direction: W

Wind Direction: WSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

2*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Test pitting along west fence for alternate slurry wall location.
3. Investigate concrete ring along west fence line.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

ATTACHMENTS:

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 025
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Investigating concrete ring structure.



Test pitting along west fence for alternate location.



Test pitting along west fence.



Brick and debris fill inside ring structure.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 025
Date Nov 21st 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 60

Temp (°F): 64

Wind Speed (mph): 8

Wind Speed (mph): 10

Wind Direction: W

Wind Direction: WSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

2*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Test pitting along west fence for alternate slurry wall location.
3. Investigate concrete ring along west fence line.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Table with 2 columns: Safety Issues, None.

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

ATTACHMENTS:

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 025
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Investigating concrete ring structure.



Test pitting along west fence for alternate location.



Test pitting along west fence.



Brick and debris fill inside ring structure.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 027
Date Nov 27th 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 28

Temp (°F): 34

Wind Speed (mph): 12

Wind Speed (mph): 13

Wind Direction: SSE

Wind Direction: E

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

7*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon Continues setup of batch plant.
3. Finished Decon pad. Installed drums for Decon liquids & PPE containment and a stone approach.
4. Oil boom being installed on outside north boundary fence line.
5. Continued grading of site.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 027
Date Nov 27th 2007
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Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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ATTACHMENTS:



Installation of containment drum



Installation of oil boom along river.



Decon station under construction.



Continued grading of site.



Envirocon's slurry piping.



Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 028
Date Nov 28th 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 32

Temp (°F): 48

Wind Speed (mph):10

Wind Speed (mph):18

Wind Direction: SW

Wind Direction: SSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

7*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Decon station completed.
3. Excavators pulling back soil from river due to sheer caused by the weight of replaced soil.
4. Envirocon continues setup of equipment around the site in preparation for slurry wall construction.

Meetings Tailgate safety meeting.

Events Large area of soil erosion develops along north fence line-excavators quickly move and pull the soil back.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 028
Date Nov 28th 2007
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Decon station complete and marked.



Safety signs set up.



Excavators begin to pull soil back from river



Envirocon continues to set up batch plant equipment.



Excavators pulling back the soil from the river.



Envirocon continues setting up equipment.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 028
Date Nov 29th 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 36

Temp (°F): 40

Wind Speed (mph):7

Wind Speed (mph):10

Wind Direction: SSW

Wind Direction: SSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Envirocon

9*

SME

2*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon continuing to set up batch plant and prep for slurry wall construction.
3. Backfilled the soil stabilization area in new building location in preparation for the slurry wall.
4. New silt fence with wire reinforcement on site and being installed along existing chain link fence.
5. Envirocon hooks up plant to fire hydrant offsite.
6. Constructing burm around Soil stockpile area. Key in trench for liner outside burm.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 028
Date Nov 29th 2007
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Reinforcing fence arrives.



Envirocon beings to premix slurry.



Envirocon connects plant to local water hydrant.



Burm constructed around Soil stockpile area.



Envirocon begins mixing process.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 029
Date Nov 30th 2007
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File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 28

Temp (°F): 36

Wind Speed (mph):9

Wind Speed (mph):12

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Envirocon

9*

SME

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Rw. Collins installed two booms across river downstream of disturbed soils.
3. Envirocon continuing to mix slurry, and prep plant.
4. Envirocon and RW Collins grooming slope and bench before erosion control mat installation.
5. Break ground for slurry wall trench construction at 1:45 PM.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 029
Date Nov 30th 2007
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Groomed slope.



Grooming bench for erosion control mat install.



Envirocon continuing to mix slurry at batch plant.



Installation of two booms across river.



First ground broken in construction of slurry wall.



Slurry wall trench begins to fill.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 029
Date December 1st 2007
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 18

Temp (°F): 23

Wind Speed (mph):8

Wind Speed (mph):10

Wind Direction: SSW

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Envirocon

9*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon continuing slurry wall construction along non structural eastern alignment between Sta 11+10 and 10+00.
3. Rw. Collins installed jute erosion control matting along northern slope and bench as a temporary solution of potential inclement weather. North American Green erosion control mat (spec material) to be on site Tuesday 12-04-07 and installed same day.
4. Began installation of backfill into slurry trench-approximately 120 cubic yards.
5. 30 cubic yards of peat was excavated from the trench-stockpiled and a berm placed around it, based on PID readings and visual inspection of material confirmed by HADC and Ken Norton SME this material is not impacted and will remain on site.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 029
Date December 1st 2007
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Construction of slurry wall begins from 11+10.



Mixing backfill to place in slurry trench.



Full view of jute matting along northern boundary.



Jute matting to control erosion.



Peat excavated from trench, stockpiled and berm placed around it.



Final position of slurry wall excavator at end of day. Approx. 10+00 Station non structural.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 030
Date December 3rd 2007
Page 1 of 3
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 22

Temp (°F): 26

Wind Speed (mph):12

Wind Speed (mph):14

Wind Direction: S

Wind Direction: SSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Envirocon

11*

SME

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued construction of slurry wall from Sta. 10+00 to 9+10
3. Rw. Collins placed road plates at ~ Sta 9+00 for access to site over open trench & assists Envirocon in construction of a temporary bridge using crane masts atop road plates across slurry.
4. Continued backfilling open trench with Cement, Bentonite & soil mix in Sta. 11+10 to 10+00

Meetings Tailgate safety meeting.

Events Edwin Collazo-Health and Safety manager with Envirocon arrives on site.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 030
Date December 3rd 2007
Page 2 of 3
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Continued construction of slurry wall from Sta.10+00 to 9+10.



Construction of slurry wall.



Soil and bentonite mixing process.



Excavator mixing backfill for use in slurry wall.



Rw. Collins installing road plates for bridge across slurry.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 030
Date December 3rd 2007
Page 3 of 3
File No. 12758-020



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 031
Date December 4th 2007
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 28

Temp (°F): 30

Wind Speed (mph):16

Wind Speed (mph):21

Wind Direction: S

Wind Direction: SSE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Envirocon

11*

SME

1*

WT Surveying

2*

L&S Electric

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued construction of slurry wall from Sta 9+10 to Sta 8+00
3. Continued installation of backfill.
4. WT Surveying.—New wall alignment, Soils slide area (to compare before and after), Slope stability monitoring stations (soils slide area), Soil boring locations (North alignment & RR property), Water treatment buildings four corners & Start the as built location of completed non structural slurry wall.
5. Removed tree and pole near south fence line to enable construction of slurry wall between sta 9+10 to 8+00. Don Novac, City of Hammond approved. (cut it down, no problem)
6. L&S Electric installed power drop from Temp power pole to Telephone pole located west of access gate and drop to decon area power receptacles for heating water tanks. (clean and contaminated)

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Project	Upland Remedial Action	Report No.	031
Location	Former Nipsco MGP site, Hammond, Indiana	Date	December 4th 2007
Client	NISource	Page	2 of 2
Contractor		File No.	12758-020

Safety Issues	None.
----------------------	-------

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Removal of pole for slurry wall construction.



Backfill being mixed for use in slurry wall.



Slurry trench under construction.



Completed non-structural wall, hardened from Saturday 12-01-07



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 032
Date December 5th 2007
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 16

Temp (°F): 23

Wind Speed (mph):12

Wind Speed (mph):17

Wind Direction: E

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Envirocon

11*

SME

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued work on slurry wall construction from 8+00 to 7+00.
3. Continued installation of backfill.
4. Envirocon frak tank leaves site. Not needed.
5. Northern perimeter erosion control mat installation complete.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 032
Date December 5th 2007
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Slurry wall construction from Sta 8+00 to 7+00



Frak tank leaves site. Inspect tires on truck, clean



Backfill being mixed and placed into slurry trench.



Slurry wall excavation and backfill mixing.



Slurry trench along South property line.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 033
Date December 6th 2007
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 16

Temp (°F): 23

Wind Speed (mph):20

Wind Speed (mph):23

Wind Direction: E

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Construction of slurry wall to Sta. 7+20.
3. Conducted fourth weekly progress meeting.
4. Conducted soil shear strength testing along northern alignment.

Meetings Tailgate safety meeting. Fourth weekly progress meeting.

Events None.

Complications Envirocon mixer plugged with cement bentonite. Silo cribbing broke and silo sinking.-Later stabilized.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 033
Date December 6th 2007
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



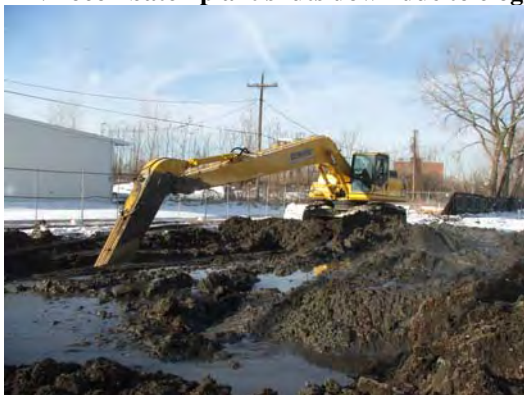
Back filling of trench at STA. 7+50.



Northern slope of site with erosion control installed.



Envirocon batch plant shuts down due to clogging. Soil shear strength testing along northern alignment.



Excavation of slurry trench.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 034
Date December 7th 2007
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. David Demas: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 12

Temp (°F): 16

Wind Speed (mph):16

Wind Speed (mph):16

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon slurry wall construction problem: Slurry broke down to a liquid state, and was no good. Removed slurry and cleaned out excavation in preparation of new slurry.
3. Rw. Collins excavated a trench and holding pond for waste slurry.
4. Continued installation of backfill.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 034
Date December 7th 2007
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Making new batch of slurry.



Mixing of bentonite and soil for fresh slurry.



Placement of backfill into existing trench.



Trench to direct waste slurry to pond.



Excavation for waste slurry.



Slurry trench looking South.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 035
Date December 8th 2007
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. David Demas: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 10

Temp (°F): 25

Wind Speed (mph):5

Wind Speed (mph):12

Wind Direction: E

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Completed backfilling the slurry trench to Sta. 7+00.
3. All of the bad slurry in the excavation was removed and trench was cleaned; new slurry will be added Monday.
4. Envirocon emptied cement silo to prevent future plugging.
5. Rw. Collins excavated an additional pond for bad slurry.
6. Continued installation of backfill.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 035
Date December 8th 2007
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Mixing of backfill for slurry trench.



Continued installation of backfill into slurry trench.



Envirocon mixing fresh bentonite slurry mix.



Trench being further cleaned and bad slurry removed.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 036
Date December 10th 2007

Client NISource
Contractor

Page 1 of 3
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.
3. Bryan Steinert: Drilling Oversight.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 25

Temp (°F): 32

Wind Speed (mph):1

Wind Speed (mph):5

Wind Direction: S

Wind Direction: SW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

8*

SME

1*

C.C.P

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Rw. Collins hauled one roll off box of asbestos offsite.
3. Rw. Collins delivered two loads of stone.
4. Construction continues of slurry wall trench from 7+00 to 6+40.
5. Calumet City plumbing on site to start 3"HDPEsewer force main and 2" copper water line.
6. Bryan Steinert of Haley and Aldrich and Earth Exploration Inc. on site to perform test borings along West alignment on RR property at the ~1+00 and 2+00 stations and north slope at ~ 5+00 and 6+50 station on the alignment. Boring #B-1 at station 1+00 was completed and boring B-2 at station 2+00 was started but not completed.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 036
Date December 10th 2007

Client NISource
Contractor

Page 2 of 3
File No. 12758-020

Safety Issues	None.
----------------------	-------

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Calumet City plumbing arrives.



Slurry wall construction from 7+00 to 6+40.



Mixing of backfill for slurry trench.



Test borings along Northern alignment.

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 036
Date December 10th
2007

Client NISource
Contractor

Page 3 of 3
File No. 12758-020



Earth Exp. on site to perform test borings.



Calumet plumbing back fill for force main.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 038
Date December 11th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.
3. Bryan Steinert: Drilling Oversight.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 30

Temp (°F): 38

Wind Speed (mph):6

Wind Speed (mph):3

Wind Direction: N

Wind Direction: NE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon construction of slurry trench from 6+40 to 5+80
3. Bryan Steinert of Haley and Aldrich and Earth Exploration Inc. on site to perform test borings along the north slope at ~ 5+00 and 6+50 station on the alignment. Boring #B-4 at station 5+00 was completed and boring B-8 at station 6+50 was completed.
4. Rw Collins disposes of last roll off box of Asbestos- Box #5
5. Rw Collins shearing tires.
6. Federal Fence on site to install temporary fence near railroad property.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

Safety Issues	None.
----------------------	-------

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 038
Date December 11th 2007

Client NISource
Contractor

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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Slurry wall excavation at 6+40.



Rw Collins shearing tires.



Test borings being performed along North alignment.



Excavator mixing backfill along slurry excavation.



Slurry wall excavation at 5+80.



Excavator creating bentonite mixture.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 038
Date December 12th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.
3. Bryan Steinert: Drilling Oversight.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 30

Temp (°F): 38

Wind Speed (mph):6

Wind Speed (mph):3

Wind Direction: N

Wind Direction: NE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW. Collins working on removing existing fence along west side of property.
3. Envirocon continues to work on slurry wall from sta. 5+80 to sta. 4+60.
4. Bryan Steinert of Haley and Aldrich and Earth Exploration Inc. on site to drill one boring in the deep extraction well location for proper well screen sizing and soil logging.
5. RW. Collins taking slurry mix and repairing slurry wall where 3" force main HDPE pipe crossed the existing slurry wall.

Meetings Tailgate safety meeting.

Events IDEM arrives on site, tours work area.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 038
Date December 12th 2007

Client NISource
Contractor

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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Construction of slurry wall between 5+80 and 4+60.



Plumbers back filling trench with stone.



Repair slurry wall at 3" FM pipe location.



Slurry from Envirocon mix box used for repair.



Richard Harris with IDEM arrives on site.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 039
Date December 13th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
- 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 22

Temp (°F): 26

Wind Speed (mph):9

Wind Speed (mph):14

Wind Direction: NE

Wind Direction: NE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

9*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. Envirocon continues slurry wall construction from sta. 4+60.
- 3. Installed straight line of stakes from North alignment station 1+50 to 3+00 for visual inspection of soil movement during back filling.
- 4. RW Collins removed erosion control mat to dig test pits for shear vane testing. Two locations along the North 1+50 to 3+00 structural wall alignment, and one test pit done along railroad at 2+50.
- 5. Calumet Plumbers continuing installation of 3" Force main pipe for treatment plant discharge.
- 6. RW Collins removed remaining fence along northwest corner of site, also removed large tree. Greg White of Envirocon said it will be in the way.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 039
Date December 13th 2007

Client NISource
Contractor

Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Calumet City Plumbing digging trench for 3' pipe.



Line of stakes on North alignment.



Shear vane testing in the Northern test pits.



Test pit near railroad.



Calumet City plumbing trench with piping.



Construction of slurry wall from sta. 4+60



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 040
Date December 14th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 32

Temp (°F): 37

Wind Speed (mph):5

Wind Speed (mph):10

Wind Direction: E

Wind Direction: E

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. All four pipe dams along 3" force main were installed as per spec and inspected by HADC. Force main was continued with a no welds no seams continuous radius from South run to East run, to the city of Hammond sanitary catch basin. Tap made by Calumet City Plumbing and inspected by HADC. Verbal ok given by city inspector. Backfilled to grade on Wilcox and Hohman Rd. HDPE pipe, hydrostatic testing to be performed next week.
3. Construction of slurry wall trench and placement of backfill from sta. 3+60 to sta 2+50.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 040
Date December 14th 2007

Client NISource
Contractor

Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Excavation of slurry wall trench at sta 3+00 to 2+50. Pipe dam being installed per spec.



Connection to sanitary catch basin completed.



Construction of slurry wall.



Burming soil for slurry wall.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 041
Date December 15th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 25

Temp (°F): 29

Wind Speed (mph):12

Wind Speed (mph):12

Wind Direction: S

Wind Direction: SW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

10*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Construction of slurry wall from Sta. 2+50 to 1+90.
3. RW. Collins worked on grading and site prep.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 041
Date December 15th 2007

Client NISource
Contractor

Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Cleared Northwest corner of site, RR property.



Construction of slurry wall trench from Sta. 2+50 to 1+90.



Construction of slurry wall trench.



Excavator digging slurry trench.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 042
Date December 17th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 22

Temp (°F): 24

Wind Speed (mph):15

Wind Speed (mph):12

Wind Direction: E

Wind Direction: NE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

8*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Construction of slurry wall from Sta. 1+90 to 1+60 and backfill to 2+20. Upon encountering pilings at 1+62 and 1+53 that could not be removed, construction halted.
3. RW Collins continues site grading.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 042
Date December 17th 2007
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



RW Collins grading site.



Slurry wall construction to from 1+90 to 1+60.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 043
Date December 18th 2007

Client NISource
Contractor

Page 1 of 3
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
- 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 31

Temp (°F): 41

Wind Speed (mph):10

Wind Speed (mph):12

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

8*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. RW. Collins Back filling lower northern bench in 1' lifts out from toe of existing slope to the north ~20' in stations 1+50 to 3+00 and 6+00 to 6+50 and out to the north ~10' in stations 3+00 to 6+00, grade materials but don't compact. (Pre loading lower bench). Install soil settlement platforms in four locations along lower bench. Also grading site in preparation of down time for holidays
- 3. Envirocon backfilling the slurry wall to Station 1+63, this is the point of the first encountered pylon in the trench. The top of pylon was 9' bgl. From this point to station 1+40 the excavation was 10' deep and back filled. This stretch is not complete due to second pylon encountered at station 1+53. Clean up, backfill any open holes and solidify waste slurry with cement in the N.W. corner and move slurry wall construction operations to the N.E. corner to finish wing going west.
- 4. Calumet City Plumbing continued installation of 2" water main.

Meetings Tailgate safety meeting. Series of construction meetings to decide north alignment issues.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 043
Date December 18th 2007

Client NISource
Contractor

Page 2 of 3
File No. 12758-020

Safety Issues	None.
----------------------	-------

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Plumbers working on 2" water main.



RW Collins backfilling Northern bench in 1 foot lifts.



Plumbers working in trench box.



RW Collins Slurry wall repair for 2" water main.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 043
Date December 18th
2007

Client NISource
Contractor

Page 3 of 3
File No. 12758-020



Pipe dam in 2" water main trench.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 044
Date December 19th 2007

Client NISource

Page 1 of 2

Contractor

File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
- 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 22

Temp (°F): 36

Wind Speed (mph):5

Wind Speed (mph):10

Wind Direction: SE

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

8*

SME

1*

WT Surveying

2*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. RW Collins backfilling lower bench from 1+50 to 6+50.
- 3. WT Surveyors on site to check slope stability monitoring stations and new settlement platforms.
- 4. Envirocon finished non structural wall from 11+40 to 11+60 and made turn to west on structural wall.
- 5. City of Hammond water dept made 2" water main tap.
- 6. Continued installation of plumbing for treatment plant.

Meetings Tailgate safety meeting.

Events None.

Complications Complications with northern slurry wall trench construction. Too unsafe to continue.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 044
Date December 19th 2007

Client NISource
Contractor

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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



RW Collins backfilling lower bench.



Backfilling bench from 1+50 to 6+50.



Installation of pipe dam.



Continued work in 3" main trench.



2" water main tap.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana

Report No. 045
Date December 20th 2007

Client NISource
Contractor

Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
- 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 32

Temp (°F): 35

Wind Speed (mph):6

Wind Speed (mph):11

Wind Direction: SE

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

8*

SME

1*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. Envirocon finished backfilling slurry wall to the 7+70 N station.
- 3. Envirocon dug 6 test pits along the west slurry wall alignment from station 1+65 to 1+15 and to the east along the 1+15 station alignment to ~10' short of the RR property line to investigate possible new alignment around Pylons. Cleaned up equipment and site, Install second row of fence around open slurry pond. Left for holidays.
- 4. RW Collins backfilled 1' lift on lower bench to ~ 1+75 station until requested by HADC to stop.
- 5. RW Collins surveyed settlement platforms along North Slope AM, Middy, and PM.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 045
Date December 20th 2007
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Slurry wall trench construction wrap up.



View of North Slope from bridge offsite.



Envirocon test pitting.



Envirocon test pitting.



Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 046
Date December 21st 2007
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE'S ACTIVITIES:
1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 36

Temp (°F): 38

Wind Speed (mph):5

Wind Speed (mph):3

Wind Direction: SE

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Calumet City Plumbing on site to test 3' force main using hydrostatic testing. Unable complete the test due to incorrect materials to cap end pipe. To reschedule in two weeks after Holidays
3. RW. Collins decon Cat D6 Dozer and Cat skid steer in preparation for demob. The D6 to leave site today.
4. Site being secured as tightly as possible, equipment locked down, all open excavation except the slurry pond are being backfilled. Silt fence checked OK and security fence checked OK in preparation for Holiday shut down.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Table with 2 columns: Safety Issues, None.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 046
Date December 21st 2007
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Decon of equipment.



Northwestern silt fence.



View of silt fence from Northwest corner.



Secure slurry pond.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 047
Date January 2nd-4th 2008
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE'S ACTIVITIES:
1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 2

Temp (°F): 28

Wind Speed (mph):0

Wind Speed (mph):3

Wind Direction: S

Wind Direction: SSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

*

Envirocon

*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Decontaminating all Heavy Equipment and machinery, construct additional fencing around Slurry pond. Removal Decontaminated equipment from site. Decontamination generated water is being drummed for future disposal or processing in on site facility, drum temporarily stored on pad next to office trailer. ID=Decon Water.
3. Envirocon is leaving Cement hopper with cement in it and portable fuel tank with fuel in it and large storage container on site.
4. RW- Collins to leave storage container on site.
5. HADC doing entire site inspection. Security fencing, Slurry pond and Erosion controls OK. Site Secure.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Table with 2 columns: Safety Issues, None.



Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 047
Date January 2nd-4th 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



PC 400 leaving site.



PC 300 at the decon station.



Godwin pump leaving site.



315L leaving site.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 048
Date July 10, 2008
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE'S ACTIVITIES:**
1. John Austgen: Construction oversight, Health and safety officer.
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 95

Temp (°F): 97

Wind Speed (mph):5

Wind Speed (mph):6

Wind Direction: E

Wind Direction: E

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

3*

Focus

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Rw. Collins fixing mobilizing for further construction.
3. Focus mobilizing for further construction.
4. Brush and debris cleared to prepare for work.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 048
Date July 10, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.
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ATTACHMENTS:



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 050
Date July 14th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Dave Demas- Environmental Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 82

Wind Speed (mph):5

Wind Speed (mph):4

Wind Direction: S

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

2*

Hyre Electric

4*

Focus

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Rw Collins pumping water out of Focus’s building excavation.
3. Rw Collins redug trench for HDPE lines in building specs.
4. Rw Collins preparing the site for the slag installation.
5. Rw Collins delivered 1 load of CA-7 for use in the building pad area for Focus.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF: No air monitoring performed today.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 050
Date July 14th 08
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 057
Date July 23rd 08
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE'S ACTIVITIES:**
1. Greg Mowatt: Construction oversight, Health and safety officer.
 2. Joshua Hunt: Perimeter Air Monitoring.
 3. Frank Marowitz-Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 82

Temp (°F): 83

Wind Speed (mph):13

Wind Speed (mph):14

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

4*

Focus

2*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon continues slurry wall excavation.
3. Rw Collins continues working on pretrenching and geotextile wrapping for stability issues on north slope.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 057
Date July 23rd 08
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Rw Collins prepping slope for geotextile wrap.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 048
Date July 24th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Joshua Hunt and Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 85

Wind Speed (mph):0

Wind Speed (mph):0

Wind Direction: S

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

6*

Focus

1*

Wt Surveyors

2*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Conducted a weekly progress meeting.
3. Continued excavation of trench and continuous placement of backfill.
4. Rw Collins continues work on the geotech style segregation wrap to contain and segregate slurry from slag.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Table with 2 columns: Safety Issues, None.



Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 048
Date July 24th 08
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Excavating for structural barrier wall



Site overview



Geotech style segregation wrap



Stacked crane mats in use



Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 048
Date July 25th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 85

Wind Speed (mph):0

Wind Speed (mph):0

Wind Direction: S

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

6*

Focus

1*

Wt Surveyors

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued excavation of trench and continuous placement of backfill.
3. Rw Collins continues work on the geotech style segregation wrap to contain and segregate slurry from slag.

Meetings Tailgate safety meeting.

Events Unannounced health and safety audit by NiSource from the environmental, health and safety coordinator John Long was performed on 07/25/08. Audited the site for HADC, RW Collins, and Envircon. Some noted concerns unlabeled unknown drums that were present on site prior to the project starting, lock out tag out procedures were questioned.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
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Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 048
Date July 25th 08
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Excavating for structural barrier wall



Crew measuring depth of structural barrier wall



Loader mixing slurry with soil



Site Overview



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 060
Date July 28th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer
4. David Demas: Construction Project Coordinator
5. Bill Fisher: Program Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 85

Wind Speed (mph):0

Wind Speed (mph):4.9

Wind Direction: SW

Wind Direction: NNW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

3*

Envirocon

9*

Focus

10*

Wt Surveyors

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued excavation of trench and continuous placement of backfill.
3. Rw Collins continues work on the geotech style segregation wrap to contain and segregate slurry from slag.
4. Received another Load of Cement.
5. W-T Land surveying monitoring new and old settlement points set by Haley and Aldrich.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 060
Date July 28th 08
Page 2 of 2
File No. 12758-020

Safety Issues	None.
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Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Placing the I beam barrier structure



Site Overview



Excavating for structural barrier wall



Structural barrier wall



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 060
Date July 28th 08
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File No. 12758-020



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 061
Date July 29th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer
4. David Demas: Construction Project Coordinator
5. Bill Fisher: Client Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 90

Wind Speed (mph):0

Wind Speed (mph):0

Wind Direction: NNE

Wind Direction: SSE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Envirocon

9*

Focus

1*

Wt Surveyors

2*

Nipsco

1*

GLSEC

2*

Purdue

2*

IDEM

3*

Nisource

4*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued excavation of trench and continuous placement of backfill.
3. Rw Collins continues work on the geotech style segregation wrap to contain and segregate slurry from slag.
4. Rw Collins worked on site maintenance, including dust control, modified plan with the use of wood chips.
5. Received 2 Loads of Cement from CTC.
6. W-T Land surveying monitoring new and old settlement points set by Haley and Aldrich.
7. Focus measured the spread footer on their building.

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 061
Date July 29th 08
Page 2 of 2
File No. 12758-020

Meetings Tailgate safety meeting.

Events Nisource performed an audit. IDEM came to approve work on site.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Outside Perimeter walk was performed to check for odors. None was present.
3. Real Time Air monitoring results
 0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



**Excavating for structural barrier wall
 (IDEM site visit)**



**Site Overview
 (Purdue study in river)**



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 062
Date July 30th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer
4. David Demas: Construction Project Coordinator
5. Bill Fisher: Client Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 90

Wind Speed (mph): 1.0

Wind Speed (mph):0

Wind Direction: NNW

Wind Direction: NNW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

3*

Envirocon

9*

Focus

1*

Wt Surveyors

2*

GLSEC

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued excavation of trench and continuous placement of backfill.
3. Received another load of cement from CTC.
4. Rw Collins finished the final stage of the North wall alignment with the use of geotech style segregation wrap to contain and segregate slurry from slag.
5. Rw Collins worked on site maintenance; wood chips were spread out to aid in dust control.
6. Rw Collins installed 120 ft oil absorbent booms a crossed Grand Calumet River upstream and downstream of existing original boom.
7. W-T Land surveying monitoring new and old settlement points set by Haley and Aldrich; located well #HAZ due to excavation; ans spot check as built slurry wall built.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 062
Date July 30th 08
Page 2 of 2
File No. 12758-020

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None.
----------------------	-------

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Rw Collins installed 120 ft oil absorbent boom



Rw Collins finishing the final stage of the North wall alignment



Excavators processing soils/slurry to mud



Collins/Envirocon working together pre-trenching



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 063
Date July 31th 08
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 85

Temp (°F): 90 (started rain HARD at 2:45)

Wind Speed (mph): 1.0

Wind Speed (mph): 40 +

Wind Direction: SW

Wind Direction: NNW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

3*

Envirocon

7*

Wt Surveyors

2*

GLSEC

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon continued excavation of trench and continuous placement of backfill.
3. Envirocon repaired the structural wall at the North East end at Sta. 7+56 where the soft spots were located.
4. Received another Load of Cement from CTC.
5. Rw Collins worked on site maintenance; leveling high areas into standing water low areas to dry them out. Dust control was also performed thru out the day. (water truck)
6. W-T Land surveying monitoring new and old settlement points set by Haley and Aldrich.
7. At 2:45 a strong storm came through and knocked over the fence on South side of site. Work was halted. The site was inspected and secured crew put the fence back up.
8. Biweekly erosion control inspection was performed by Greg and Jennifer, second inspection was performed after strong storm with 2+ inches of rain fall occurring. As a result of the inspection the site erosion control measures are all intact and working.

Meetings Tailgate safety meeting. Weekly progress meeting.

Events None.

Complications None.

Change Orders None.



Project Upland Remedial Action
Location Former NipSCO MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 063
Date July 31th 08
Page 2 of 2
File No. 12758-020

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results
 0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	Weekly lunch time safety training was performed.
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Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Site Overview



Structural wall installation at STA 1+25



Excavators repairing structural wall at STA 7+56



Repair of structural wall at STA 7+56



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 064
Date August 1, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. Frank Marowitz: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 85

Wind Speed (mph): 1.0

Wind Speed (mph): 0

Wind Direction: SW

Wind Direction: SSW

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Envirocon

8*

Focus

6*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon continued excavation of trench and continuous placement of backfill.
3. Received another Load of Cement from CTC.
4. Rw Collins worked on site maintenance; leveling high areas into standing water low areas to dry them out.
5. Decontamination area was cleaned and ready for use.
6. Focus worked on stripping forms from footer, replaced spread footer.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.
3. Perimeter odor identification was performed.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 064
Date August 1, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Diamond saw cutting footing spreader



Workers repairing spreader



Excavators mixing soil and slurry to form mud



Decontamination of Enivorcon's equipment



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 065
Date August 2, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. Frank Marowitz: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 82

Wind Speed (mph): 13.0

Wind Speed (mph): 6

Wind Direction: NE

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Envirocon

6*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Envirocon started to decontaminate equipment
3. Filled slurry pond with cement to harden.
4. Received another Load of Cement from CTC.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 065
Date August 2, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Filling slurry pond with cement to harden



Envirocon loading crane mats on truck



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 066
Date August 4, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 82

Temp (°F): 85

Wind Speed (mph):12

Wind Speed (mph): 12

Wind Direction: S

Wind Direction: SSW

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	3*
Envirocon	5*
Focus	5*
W.T. Surveyors	2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Rw Collins added stone for the bottom grade of floor sump.
3. Envirocon decontaminated and started to demobilize their equipment from site.
4. Rw Collins worked on site maintenance.
5. WT Surveyors began final shoots of settlement point along both sides of the structural barrier wall, work halted due to sever weather. WT to return on Wednesday the 6th of August.
6. Focus started to remove forms from spreader and started to form the footer walls, work halted due to weather.
7. Erosion Control Inspection was performed by HADC & RW Collins after the storm, the silt fence and perimeter fence were ok.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. No air monitoring performed due to storm.

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 066
Date August 4, 2008
Page 2 of 2
File No. 12758-020

Safety Issues	None
----------------------	------

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Focus removing forms from Spreader and forming the footer walls



Collins is adding stone for the bottom grade of floor sump



Stone for the floor sump



Strong storm passed over site



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 066
Date August 5, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 82

Temp (°F): 85

Wind Speed (mph):6.0

Wind Speed (mph): 6

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

3*

W.T Surveyors

2*

Focus

6*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. W. T. Surveyors surveyed final settlement points; laid out central sump at corners and offsets with grade; laid out deep extraction well; laid out all trenches and manholes, and surveyed topography of southern retaining wall.
3. Rw Collins worked on site maintenance; clearing area’s for W.T. Surveyors to survey.
- 4.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. No air monitoring was performed today due to the inclement weather.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 066
Date August 5, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Oil booms inspected after storm, ok.



Rain water atop structural barrier wall



Silt fence inspected after storm, ok.



Demobilizing of Envirocon's equipment



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 067
Date August 6, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 82

Temp (°F): 82

Wind Speed (mph):10.0

Wind Speed (mph): 7

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

3*

W.T Surveyors

2*

Focus

6*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. W. T. Surveyors surveyed settlement points for final reading; laid out central sump at corners and offsets with grade; laid out deep extraction well, surveyed topography of southern curb, laid out all collection trench piping runs and manholes.
3. Rw Collins worked on site maintenance; clearing area’s for W.T. Surveyors to survey.
4. Focus poured concrete for the building’s footer.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.

Safety Issues	None
----------------------	------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 067
Date August 6, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



W. T. Surveyors surveyed final settlement points



Rw Collins working on site maintenance



Focus performing quality assurance before pouring concrete



Focus pouring concrete for walls



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 068
Date August 7, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer.
2. Jennifer Bellamy: Perimeter Air Monitoring.
3. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 81

Wind Speed (mph):12.0

Wind Speed (mph): 10

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

7*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Rw Collins worked on site maintenance; moving tires and debris to the south side of property for burial in the berm.
3. Focus removed bracing from concrete walls.

Meetings Tailgate safety meeting. Weekly progress meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. No action limits reached.
3. Outside Perimeter walk was performed to check for odors. None was present.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 068
Date August 7, 2008
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File No. 12758-020

Field Representative(s)

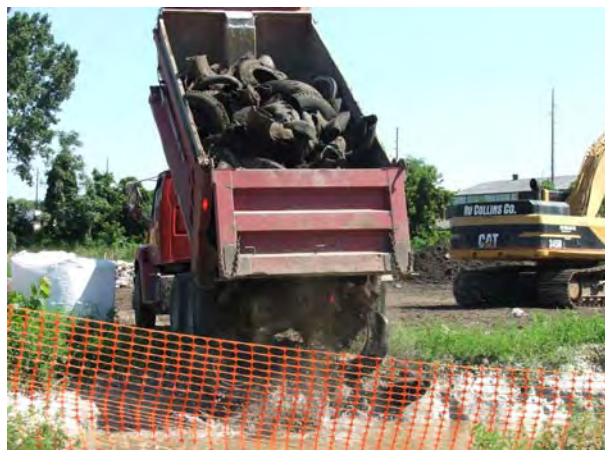
Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Rw Collins working on site maintenance.



Focus removed forms from building.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 070
Date August 08, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 82

Wind Speed (mph):10.0

Wind Speed (mph): 10

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

1*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; moving slag from the river edge to the south side of property for burial in the berm; investigating the UST.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 070
Date August 08, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



RW Collins uncovers UST



RW Collins burying tires, slag and other debris



RW Collins performs exploratory excavations



RW Collins uncovers UST Saddle



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 071
Date August 11, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Jennifer Bellamy: Perimeter Air Monitoring.
2. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 73

Wind Speed (mph):12.0

Wind Speed (mph): 12

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

5*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; moving slag from the river edge to the south side of property for burial in the berm.
3. RW Collins back filled inside and outside of the foundation of treatment building.
4. Focus put in drain pipe around the inside and outside of treatment building and started to work on setting up conduits.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Table with 2 columns: Safety Issues, None



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 071
Date August 11, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Focus placing drain pipes on outside of treatment building.



RW Collins backfilling treatment building.



Focus placing drain pipes on outside of treatment building



RW Collins removing debris from north side of property.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 072
Date August 12, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 78

Temp (°F): 76

Wind Speed (mph):5.0

Wind Speed (mph): 6

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

5*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; moving debris and bulk material from the river edge to the south side of property for burial in the berm.
3. RW Collins field tested the HDPE under the floor of treatment building for leaks.
4. RW Collins starts to assembly filtration system for the temporary discharge of water.
5. Focus working on laying out conduit for the treatment building.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 072
Date August 12, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Focus installing conduits



Site Overview



RW Collins performing field pressure check



Treatment building backfilled



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 073
Date August 13, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 74

Temp (°F): 76

Wind Speed (mph):5.0

Wind Speed (mph): 6

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

8*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; moving debris and bulk material from the river edge to the south side of property.
3. RW Collins excavated test pit in central sump location to check if filtration system for temporary discharge of water if ready for use.
4. RW Collins starts to assembly filtration system for the temporary discharge of water.
5. RW Collins finished backfilling the treatment building.
6. Focus working on laying out conduit for the treatment building.
7. Focus formed floor sump pit.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 073
Date August 13, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Low relief berm



Debris piles on south side of site



RW Collins moving debris and bulk material from the river edge to the south side of property



Focus installing conduits



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 074
Date August 14, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Jennifer Bellamy: Perimeter Air Monitoring.
2. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 74

Temp (°F): 78

Wind Speed (mph):5.0

Wind Speed (mph): 6

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Focus

4*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; piling soils, tires, and concrete into piles on South side to prepare for removal off site and performing dust control measures.
3. RW Collins prepared electric trench for Focus.
4. Biweekly erosion control inspection was performed; as a result of the inspection the site erosion control measures are all intact and working.
5. Focus laid electric conduit for treatment building.

Meetings Tailgate safety meeting. Weekly safety meeting. Weekly progress meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results: 0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.
3. Outside Perimeter walk was performed to check for odors. None was present.

Table with 2 columns: Safety Issues, None

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 074
Date August 14, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



RW Collins preparing electric trench for Focus.



RW Collins laying metallic tracing tape for pipe runs



Temporary filtration system for the discharge of water.



RW Collins processing tires for removal off site



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 075
Date August 15, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. David Demas: Project Manager

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 74

Temp (°F): 78

Wind Speed (mph):5.0

Wind Speed (mph): 6

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

Focus

8*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; piling soils, tires, and concrete into piles on South side, to prepare for removal off site and performing dust control measures.
3. RW Collins prepared electric trench for Focus.
4. RW Collins spread slag on roadways for soil removal.
5. RW Collins located tar well and placed RUSTMAR odor control foam over it.
6. Focus poured concrete for treatment building's floor.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 075
Date August 15, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



RW Collins located tar well.



RUSTMAR odor control foam placed on top of tar well



Focus pouring concrete for floor of treatment building.



Focus leveling concrete floor of treatment building.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 076
Date August 18, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Jennifer Bellamy: Perimeter Air Monitoring.
2. John Austgen: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 81

Temp (°F): 84

Wind Speed (mph):12.0

Wind Speed (mph): 10

Wind Direction: SWS

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

3*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; grading site, separating debris from soil for disposal, and performing dust control measures.
3. RW Collins collected water discharge samples.
4. RW Collins worked on restoring the decontamination pad area after the electric trench was backfilled.
5. Focus pulled forms from floor sump of treatment building.
6. Focus saw cut concrete to put in control joints.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Table with 2 columns: Safety Issues, None



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 076
Date August 18, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Site Overview



Debris piles ready for disposal



RW Collins separating debris from soil for disposal



RW Collins preparing soil piles for disposal



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 077
Date August 19, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. John Austgen: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 78

Temp (°F): 86

Wind Speed (mph):6.0

Wind Speed (mph): 6

Wind Direction: SWS

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; grading site, consolidating soil and debris piles for loading off site, and performing dust control measures.
3. RW Collins loaded soil into EQ’s 12 trucks throughout the day, ending with a total of 31 loads. Each truck was decontaminated before leaving site.
4. RW Collins removed soil and debris from the tar well and staging it in the soil containment area and foamed it to minimize odor.
5. Focus fixed the honey comb texture in the floor sump.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 077
Date August 19, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

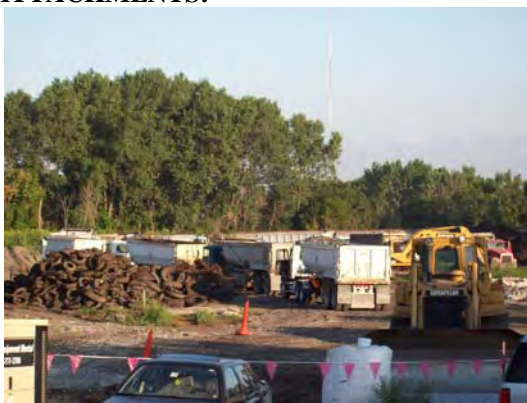
Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



EQ's trucks waiting to be loaded



RW Collins loading soil into trucks for disposal



RW Collins removing soil and debris from tar well



RUSTMAR odor control foam placed on top of soil and debris removed from tar well



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 078
Date August 20, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. John Austgen: Engineer

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 77

Temp (°F): 82

Wind Speed (mph):6.0

Wind Speed (mph): 10

Wind Direction: SE

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

6*

Focus

1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; grading site, consolidating soil and debris piles for loading off site, processing tires, and performing dust control measures.
3. RW Collins loaded soil into EQ’s 10 trucks throughout the day, ending with a total of 25 loads. Each truck was decontaminated before leaving site.
4. RW Collins dewatered tar well.
5. RW Collins delivered the first 2 sections of the central sump.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 078
Date August 20, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Soils for disposal being loaded



Dewatering tar well for regeneration observation



RW Collins unloading central sump sections



RW Collins decontaminating trucks.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 079
Date August 21, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. Greg Mowatt: Construction oversight, Health and safety officer.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 79

Wind Speed (mph):6.0

Wind Speed (mph): 5

Wind Direction: SSE

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

8*

Focus

3*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; grading site, consolidating soil and debris piles for loading off site, and performing dust control measures.
3. RW Collins loaded soil into 10 trucks throughout the day, ending with a total of 26 loads. Each truck was decontaminated before leaving site.
4. RW Collins hauled 3 loads of stone in for pipe dam construction.
5. Focus’s building block was delivered.

Meetings Tailgate safety meeting. Weekly progress meeting. Weekly safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.
3. Outside perimeter walk was performed to check for odors. None were present.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 079
Date August 21, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Soils for disposal being loaded.



RW Collins decontaminating trucks



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 080
Date August 22, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

1. Jennifer Bellamy: Perimeter Air Monitoring.
2. Greg Mowatt: Construction oversight, Health and safety officer.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 79

Wind Speed (mph):6.0

Wind Speed (mph): 5

Wind Direction: SSE

Wind Direction: SE

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; grading site, consolidating soil and debris piles for loading off site, and performing dust control measures.
3. RW Collins loaded soil into 9 trucks throughout the day, ending with a total of 25 loads. Each truck was decontaminated before leaving site.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram and Procheck PID. no action limits reached.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 080
Date August 22, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



RW Collins grading site



Site Overview



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 081
Date August 25, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Joshua Hunt: Perimeter Air Monitoring.
2. Greg Mowatt: Construction oversight, Health and safety officer.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 62

Temp (°F): 79

Wind Speed (mph): 7

Wind Speed (mph): 5

Wind Direction: NNE

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

1*

Colvin

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins worked on site maintenance; continued grading, debris piles for loading off site, and performing dust control measures.
3. RW Collins loaded soil into 8 trucks throughout the day, ending with a total of 23 loads. Each truck was decontaminated before leaving site.
4. Focus mortar work begins on treatment plant.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 081
Date August 25, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Jennifer Bellamy: Field Geologist

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



RW Collins grading site.



Focus setting up mortar work.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 083
Date August 26, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

- 1. Joshua Hunt: Perimeter Air Monitoring.
2. Greg Mowatt: Construction oversight, Health and safety officer.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 68

Temp (°F): 71

Wind Speed (mph): 2

Wind Speed (mph): 14

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

1*

Colvin

3*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. RW Collins expanding the central sump excavation for dewatering.
3. Colvin continues to work on treatment plant.
4. Foaming performed to reduce VOC readings.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results: 0.0ppm entire day-Data Ram.

Table with 2 columns: Safety Issues, None



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 083
Date August 26, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Foaming performed on excavation.



Expanding central sump area.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 084
Date August 27, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 65

Temp (°F): 72

Wind Speed (mph): 8

Wind Speed (mph): 12

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

1*

Colvin

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins works on dewatering, final cleanout of tar well structure complete. Material in area bulked and placed in containment area.
3. Soil moved farther back from the edge of the central sump excavation.
4. Test pit dug on alignment of trench #1 to check soil.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 084
Date August 27, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Segregating soil into containment area.



Drying out sludge at the bottom of the tar well.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 085
Date August 28, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 69

Temp (°F): 82

Wind Speed (mph): 3

Wind Speed (mph): 6

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

1*

Colvin

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins performs test pitting along trench alignments to determine soil conditions.
3. RW Collins continues work on central sump.
4. Colvin continues construction of block treatment building.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 085
Date August 28, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Longstick arrives to help with excavation of trench.



Test pitting to determine soil conditions.



Colvin constructing block treatment building.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 086
Date August 29th, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 69

Temp (°F): 79

Wind Speed (mph): 8

Wind Speed (mph): 4

Wind Direction: S

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

1*

Colvin

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins brings ten loads of stone for piping trenches onto site.
3. Continued work on excavating the central sump.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 086
Date August 29th, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Central sump prepared for placement into excavation.



RW Collins continues excavation of sump, and dewatering.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 087
Date September 2nd, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

1. Greg Mowatt: Construction oversight, Health and safety officer
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 84

Temp (°F): 95

Wind Speed (mph): 2

Wind Speed (mph): 4

Wind Direction: N

Wind Direction: N

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

Focus

1*

Colvin

3*

II. CONTRACTOR'S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins cleared floor and walls of central sump in preparation for base.
3. Stabilization fabric installed as well as 12" of stone laid as a base for the central sump.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 087
Date September 2nd, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Fabric being prepared for sump.



Stone on sides of excavation and fabric on bottom.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 088
Date September 3rd, 2008
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction oversight, Health and safety officer
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)	Night (12:00-16:00)
Temp (°F): 78	Temp (°F): 83
Wind Speed (mph): 1	Wind Speed (mph): 2
Wind Direction: N	Wind Direction: N

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	5*
Focus	1*
Colvin	3*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Central sump filled to grade with 6” stone, crane used to set the bottom 2 structures in place.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 088
Date September 3rd, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

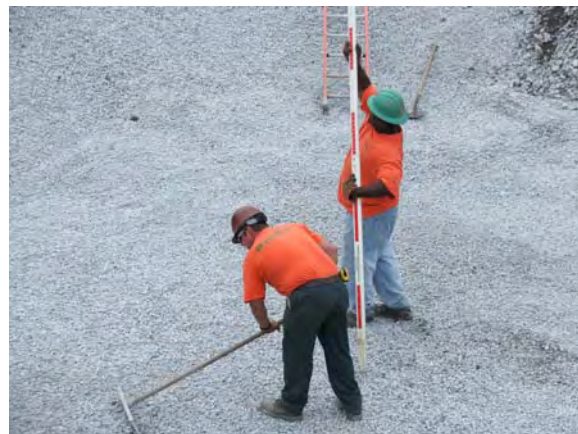
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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Crane setting central sump structure in place.



Central sump filled to grade.



Central sump structure in place.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 089
Date September 4th, 2008
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction oversight, Health and safety officer
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00) **Night (12:00-16:00)**
Temp (°F): 64 **Temp (°F): 68**
Wind Speed (mph): 6 **Wind Speed (mph): 10**
Wind Direction: E **Wind Direction: E**

Equipment and Laborers on site:

Contractor **Crew of *See Sign in sheets on file.**
Rw. Collins 5*
Focus 1*
Colvin 3*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins continues work on trench #1 with longstick excavator.
3. Central sump hole completely pumped dry to allow for overnight rains.

Meetings Tailgate safety meeting. Conducted weekly progress meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NISource
Contractor

Report No. 089
Date September 4th, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Central sump area being pumped to remove water.



Work on trench#1 with longstick excavator.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 090
Date September 5th, 2008
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction oversight, Health and safety officer
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 69

Temp (°F): 71

Wind Speed (mph): 8

Wind Speed (mph): 5

Wind Direction: SE

Wind Direction: S

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	5*
Focus	1*
Colvin	3*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Colvin finished with block on treatment plant and cleaning and demobilizing their equipment.
3. RW Collins begins constructing hdpe flanges and riser pipe fusion.
4. Rw Collins continued excavation of trench #1.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 090
Date September 5th, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Northern slope flooded due to rain.



Flooded central sump after rain event.



View of trench #1-Looking west to east.



Project	Upland Remedial Action	Report No.	091
Location	Former Nipsco MGP site, Hammond, Indiana	Date	September 8th, 2008
Client	NiSource	Page	1 of 2
Contractor		File No.	12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction Site Manager, Health and safety officer
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)	Night (12:00-16:00)
Temp (°F): 60	Temp (°F): 64
Wind Speed (mph): 4	Wind Speed (mph): 9
Wind Direction: N	Wind Direction: N

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	7*
Focus	3*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. RW Collins continued excavation of trench#1 and have reached the location of manhole #1.
3. Geotextile material 315ST installed atop sub grade in the first 150ft of the trench.
4. Focus subcontractors, Taylored Foam injected foam insulation into block walls of treatment building.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 091
Date September 8th, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Site Manager/H&S Officer
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Geotextile 315ST being installed in collection trench #1



Collection trench#1 excavated to manhole #1.



Foam injected into block walls of treatment building.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 092
Date September 9th, 2008
Page 1 of 2
File No. 12758-020

- I. FIELD REPRESENTATIVE'S ACTIVITIES:
1. Greg Mowatt: Construction Site Manager, Health and safety officer
2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00) Night (12:00-16:00)
Temp (°F): 65 Temp (°F): 72
Wind Speed (mph): 4 Wind Speed (mph): 6
Wind Direction: S Wind Direction: SW

Equipment and Laborers on site:

Contractor Crew of *See Sign in sheets on file.
Rw. Collins 6*
Focus 1*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. RW Collins continued work on trench #1, backfilling with CA-6 stone and preparing for placement of perforated HDPE pipe.
3. Continued Central sump dewatering for concrete wedge placement in base unit.
4. Pipe fusion of solid / perforated HDPE pipe continuing regularly.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Table with 2 columns: Safety Issues, None

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 092
Date September 9th, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)

Greg Mowatt: Construction Site Manager-
H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



RW Collins installed clay pipe dam as per spec in trench #1.



RW Collins working on HDPE pipe fusion.



Prep of central sump and placement of stone for HDPE pipes.



Project	Upland Remedial Action	Report No.	093
Location	Former Nipsco MGP site, Hammond, Indiana	Date	September 10th, 2008
Client	NiSource	Page	1 of 2
Contractor		File No.	12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction Site Manager, Health and safety officer
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)	Night (12:00-16:00)
Temp (°F): 62	Temp (°F): 76
Wind Speed (mph): 5	Wind Speed (mph): 9
Wind Direction: SE	Wind Direction: S

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	7*
Focus	1*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Central sump has been pumped out and cleaned and is ready for concrete wedge placement in base unit.
3. Trench #1 has been cut to grade, water running into bottom of excavation being pumped out.
4. Pipe fusion of solid/perforated HDPE pipe continuing regularly.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 093
Date September 10th, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Construction Site Manager-
H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Water in bottom of trench excavation.



RW Collins placing geotextile material in trench #1.



RW Collins placing CA-6 stone in trench and grading
As per spec.



Project	Upland Remedial Action	Report No.	094
Location	Former Nipsco MGP site, Hammond, Indiana	Date	September 11th, 2008
Client	NiSource	Page	1 of 2
Contractor		File No.	12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction Site Manager, Health and safety officer
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)	Night (12:00-16:00)
Temp (°F): 66	Temp (°F): 71
Wind Speed (mph): 6	Wind Speed (mph): 2
Wind Direction: SW	Wind Direction: SW

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	9*
Focus	2*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Continued excavation of collection trench #1 and #6.
3. HDPE 6” pipe fusion continues for preparation of placement into collection trenches #1 and #6.
4. Concrete poured into central sump to provide sloped bottom for pumping.

Meetings Tailgate safety meeting. Conducted weekly progress meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 094
Date September 11th, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Construction Site Manager-
H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Excavator used to transport concrete into central sump.



Concrete work in central sump.



Project	Upland Remedial Action	Report No.	095
Location	Former Nipsco MGP site, Hammond, Indiana	Date	September 12th, 2008
Client	NiSource	Page	1 of 2
Contractor		File No.	12758-020

- I. FIELD REPRESENTATIVE’S ACTIVITIES:**
1. Greg Mowatt: Construction Site Manager, Health and safety officer
 2. Joshua Hunt: Perimeter Air Monitoring.

Weather

Morning (7:00-12:00)	Night (12:00-16:00)
Temp (°F): 70	Temp (°F): 82
Wind Speed (mph): 3	Wind Speed (mph): 6
Wind Direction: S	Wind Direction: S

Equipment and Laborers on site:

Contractor	Crew of *See Sign in sheets on file.
Rw. Collins	6*
Focus	1*

- II. CONTRACTOR’S ACTIVITIES:**
1. Conducted a health and safety briefing.
 2. Rw Collins installs pipe dam in collection trench #1 and 6.
 3. Low pressure air testing performed on 6” HDPE piping, all piping passed.
 4. Rw Collins places 6” HDPE piping in collection trench #1.

Meetings Tailgate safety meeting.

Events None.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 095
Date September 12th, 2008
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File No. 12758-020

Field Representative(s)

Greg Mowatt: Construction Site Manager-
H&S Officer
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design &
Construction, Inc.

ATTACHMENTS:



Low pressure Air testing done on 6" HDPE piping.



Pipe dam installed in collection trenches #1 and #6.



6" HDPE pipe being placed into collection trench #1.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 096
Date September 15th, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

Weather

Morning (7:00-12:00) Night (12:00-16:00)
Temp (°F): 70 Temp (°F): 76
Wind Speed (mph): 3 Wind Speed (mph): 3
Wind Direction: E Wind Direction: E

Equipment and Laborers on site:

Contractor Crew of *See Sign in sheets on file.
Rw. Collins 2*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Pumping groundwater out of central sump and trenches due to record rain event.

Meetings Tailgate safety meeting.
Events No HADC representative on site due to inability to access site. Record rain event over weekend produced a total of 13 inches, causing widespread flooding in the area.
Complications All trenches and central sump full of water to grade. Installed HDPE pipe floated to surface.
Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. No air monitoring conducted.

Table with 2 columns: Safety Issues, None

Field Representative(s)

Distribution: [Company Name; Attn: Contact Name]

ATTACHMENTS:

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 096
Date September 15th,
2008
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File No. 12758-020



Central sump after main rain event.



Grand Calumet River after flood event.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 097
Date September 16th, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE'S ACTIVITIES:

Weather

Morning (7:00-12:00) Night (12:00-16:00)
Temp (°F): 74 Temp (°F): 78
Wind Speed (mph): 2 Wind Speed (mph): 7
Wind Direction: S Wind Direction: SE

Equipment and Laborers on site:

Contractor Crew of *See Sign in sheets on file.
Rw. Collins 3*

II. CONTRACTOR'S ACTIVITIES:

- 1. Conducted a health and safety briefing.
2. Pumping groundwater/river water out of central sump and collection trenches due to flood event.
3. Continued 6" HDPE pipe fusion.

Meetings Tailgate safety meeting.
Events No HADC representative on site due to inability to access site. Record rain event over weekend produced a total of 13 inches, causing widespread flooding in the area.
Complications All trenches and central sump full of water to grade. Installed HDPE pipe floated to surface.
Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. No air monitoring conducted.

Table with 2 columns: Safety Issues, None

Field Representative(s)

Distribution: [Company Name; Attn: Contact Name]

ATTACHMENTS:

Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 097
Date September 16th,
2008
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6" HDPE piping at location of Manhole #1.



Northern fence line-erosion control still intact.



6" HDPE piping along collection trench #1.



Collection Trench #1.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 098
Date September 17th, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

- 1. Joshua Hunt: Perimeter Air Monitoring.-**Site Support**

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 75

Temp (°F): 80

Wind Speed (mph): 6

Wind Speed (mph): 10

Wind Direction: SE

Wind Direction: S

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

II. CONTRACTOR’S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. Pumping continues on the flooded collection trenches and central sump excavation.
- 3. RW Collins processes wood pile to 3’ or less size to enable disposal. Concrete pile broken up for use in filling various holes.

Meetings Tailgate safety meeting.

Events Record rain event over weekend produced a total of 13 inches, causing widespread flooding in the area.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
- 2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
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Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 098
Date September 17th, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)
Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

C:\Documents and Settings\jdhunt\Desktop\DFR HAMMOND\9-04-08.doc

Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



View of collection trench #1 looking east.



Central sump excavation looking west.



Northern slope looking west.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 099
Date September 18th, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

- 1. Joshua Hunt: Perimeter Air Monitoring. -**Site support**

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 72

Temp (°F): 88

Wind Speed (mph): 4

Wind Speed (mph): 6

Wind Direction: E

Wind Direction: E

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

4*

II. CONTRACTOR’S ACTIVITIES:

- 1. Conducted a health and safety briefing.
- 2. Pumping continues on the flooded collection trenches and central sump excavation.
- 3. RW Collins punched holes in bottom of tar well structure and steel vessel to allow ground water equilibration.
- 4. Concrete and soil used to fill steel vessel.

Meetings Tailgate safety meeting.

Events Record rain event over weekend produced a total of 13 inches, causing widespread flooding in the area.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

- 1. Calibrated photo ionization detector (PID) with 100 ppm of isobutylene gas and carbon zero filters. Calibrated the Personal Data Ram for dust particulates.
- 2. Real Time Air monitoring results:
0.0ppm entire day-Data Ram.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 099
Date September 18th, 2008
Page 2 of 2
File No. 12758-020

Field Representative(s)
 Joshua Hunt: Geological Technician

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

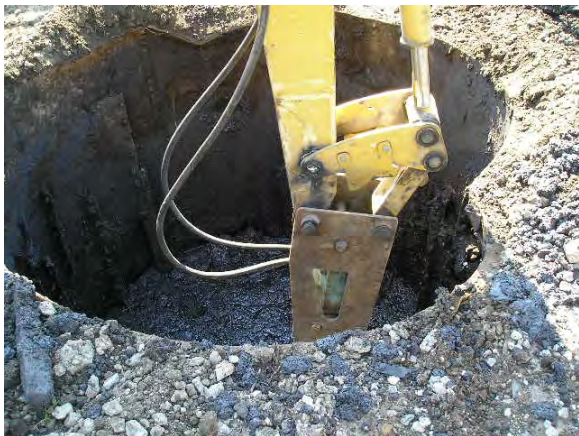
ATTACHMENTS:



Collection trench #1.



Punching holes in bottom of tar well structure.



Punching holes in bottom of steel vessel.



View of northern slope looking west.



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 100
Date September 19th, 2008
Page 1 of 2
File No. 12758-020

I. FIELD REPRESENTATIVE’S ACTIVITIES:

Weather

Morning (7:00-12:00)

Night (12:00-16:00)

Temp (°F): 80

Temp (°F): 82

Wind Speed (mph): 5

Wind Speed (mph): 7

Wind Direction: E

Wind Direction: E

Equipment and Laborers on site:

Contractor

Crew of *See Sign in sheets on file.

Rw. Collins

5*

II. CONTRACTOR’S ACTIVITIES:

1. Conducted a health and safety briefing.
2. Pumping continues on the flooded collection trenches and central sump excavation.-Began 10 hour second shifts to continue pumping of water from trenches.
3. RW Collins quartering tires all day.

Meetings Tailgate safety meeting.

Events Record rain event over weekend produced a total of 13 inches, causing widespread flooding in the area.

Complications None.

Change Orders None.

DAILY AIR MONITORING BRIEF:

1. No air monitoring conducted.

Safety Issues	None
----------------------	------



Project Upland Remedial Action
Location Former Nipsco MGP site, Hammond, Indiana
Client NiSource
Contractor

Report No. 100
Date September 19th, 2008
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Field Representative(s)

Distribution: [Company Name; Attn: Contact Name]

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Haley & Aldrich Design & Construction, Inc.

ATTACHMENTS:



Quartering tires.



View of central sump excavation looking south.

APPENDIX D

ESCP Inspection Logs

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site

DATE OF INSPECTION: 10-26-07

INSPECTED BY: Greg A Mowatt HADC

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.
Compliance photos are recommended.

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site

DATE OF INSPECTION: 11-9-07

INSPECTED BY: Greg A Mowatt AADC

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.
Compliance photos are recommended.

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site _____

DATE OF INSPECTION: 11-21-07 _____

INSPECTED BY: Greg A Mowatt HADC _____

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.
Compliance photos are recommended.

INSPECTION FORM

Inspections are to be carried out once per week and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: North Boundary

DATE OF INSPECTION: 11-28-07

INSPECTED BY: Greg A Mowatt

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.

Compliance photos are recommended.

Soils sheered at the 4+75 to 5+50 structural
wall location and rose in the Grand Calumet
river. Pull back all soils along river level bench
40' and entire length. Install second row of silt fence
entire length. Repair area for erosion control mat.

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site

DATE OF INSPECTION: 12-5-07

INSPECTED BY: Greg A Mowatt

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.
Compliance photos are recommended.

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site

DATE OF INSPECTION: 12-13-07

INSPECTED BY: Greg A Mowatt

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.

Compliance photos are recommended.

Heavy & steady rain on 12-11-07/12-12-07

12-11-07 1/4 rain fall total

12-12-07 1/2 rain fall total

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site

DATE OF INSPECTION: 12-21-07

INSPECTED BY: Greg A Mowatt

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.
Compliance photos are recommended.

INSPECTION FORM

Inspections are to be carried out Bi-weekly and within 24 hours after a 0.5-inch rain event.

AREA INSPECTED: Entire Construction site

DATE OF INSPECTION: 1-9-08

INSPECTED BY: Greg A Mowatt

Are material stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented?	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item.
Compliance photos are recommended.

There was a 1.9" rain fall on the evening of
1-7-08 thru the day of 1-8-08.
river level came up approx 3'. Silt fence held
no erosion to the river occurred



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire site and erosion control areas

DATE OF INSPECTION: 15-Jan-08

INSPECTED BY: Joshua D. Hunt

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Visit site to pickup files and air monitoring data for PM. Check site perimeter - site is secure.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: ENTIRE PROPERTY - EMPHASIS ON NORTH SLOPE

DATE OF INSPECTION: FEBRUARY 5, 2008 (3:00 PM EST)

INSPECTED BY: STEVE McDONALD - R.W. COLLINS

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	NO	<input checked="" type="radio"/> NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	NO	<input checked="" type="radio"/> NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

NO VISIBLE PONDING OF SURFACE WATER IN
LOWER SHELF AREA OF NORTH SLOPE. RIVER LEVEL
WAS MODERATE. NO VISIBLE EROSION IN NORTH SLOPE
AREA OR ELSEWHERE ON SITE. SITE WAS SECURE WITH
NO SIGNS OF UNAUTHORIZED ENTRY.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire site and erosion controls

DATE OF INSPECTION: 15-Feb-08

INSPECTED BY: Joshua D. Hunt

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Site was secure - no unauthorized entry apparent.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire construction site

DATE OF INSPECTION: 12-Mar-08

INSPECTED BY: Steve McDonald - R.W. Collins

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	NO	<input checked="" type="radio"/> NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	NO	<input checked="" type="radio"/> NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Picking up equipment for nearby jobsite. Checked site perimeter fence and erosion controls.

No visible signs of unauthorized entry - site secure.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire property and north slope.

DATE OF INSPECTION: 17-Mar-08

INSPECTED BY: Steve McDonald - R.W. Collins

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	NO	<input checked="" type="radio"/> NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	NO	<input checked="" type="radio"/> NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Visit site to pickup equipment. Walked entire perimeter fence - site was secure with no visible signs of unauthorized entry.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Hammond Former MGP

DATE OF INSPECTION: 20-Mar-08

INSPECTED BY: Joshua D. Hunt

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Precipitation event was less than predicted (< 0.5") - Site conditions were stable.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire site and north slope.

DATE OF INSPECTION: 26-Mar-08

INSPECTED BY: Joshua D. Hunt

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	NO	<input checked="" type="radio"/> NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Site walkthrough with driller to evaluate north slope conditions and accessibility. Found one

fence post pulled out of it's pedestal, it was re-secured. Photographs attached.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire Construction Site and north river bank

DATE OF INSPECTION: 28-Mar-08

INSPECTED BY: Joshua D. Hunt

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Inspected entire area for debris/trash. Verified that gate was locked upon arrival (it was) and
ensured all fence posts were intact within their pedestals. Re-attached loose visual barrier fabric
using tie-wraps and attached "PRIVATE PROPERTY - NO TRESPASSING" signs to
perimeter fence. Photographs are attached.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Entire Construction Site and north river bank

DATE OF INSPECTION: 15-Apr-08

INSPECTED BY: David Demas

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Inspected entire area for debris/trash or vandalism.

Ensured all fence posts were intact within their pedestals. Inspected visual barrier fabric.

Site was in good condition, dry, and no odors were detectable



215 24200
00242 312
6511E

Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Area Between Upland Site and Grand Calumet River

DATE OF INSPECTION: 4/30/08

INSPECTED BY: John P. Austgen

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	<input checked="" type="radio"/> NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: North Border Between Upland + Grand Calumet River

DATE OF INSPECTION: 5/14/2008

INSPECTED BY: John Austgen

Are materials stored outdoors that are not identified in the Plan?	YES	<input checked="" type="radio"/> NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	<input checked="" type="radio"/> NO	NA
Are stormwater management practices identified in the SWPPP adequate?	<input checked="" type="radio"/> YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	<input checked="" type="radio"/> YES	NO	NA
Are there signs of erosion caused by runoff?	YES	NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	<input checked="" type="radio"/> NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.



Inspections are to be carried out bi-weekly and within 24-hours after a 0.5-inch precipitation event.

AREA INSPECTED: Hammond Former Mgp Site

DATE OF INSPECTION: Tuesday May 27th, 2008

INSPECTED BY: Joshua D. Hunt

Are materials stored outdoors that are not identified in the Plan?	YES	NO	NA
For materials stored outdoors, is there evidence that pollutants may impact stormwater (such as residual or spilled materials)?	YES	NO	NA
Are stormwater management practices identified in the SWPPP adequate?	YES	NO	NA
Have stormwater management practices identified in the SWPPP been properly implemented	YES	NO	NA
Are there signs of erosion caused by runoff?	YES	NO	NA
Are there non-stormwater discharges in the stormwater discharge system?	YES	NO	NA

If any of the above questions require additional actions, provide a description of the corrective action steps to be taken and the timing to complete each item. Compliance photographs are recommended.

Northern slurry wall is holding up well, no signs of damage. Fencing surrounding the site is
intact and in good condition. Approximately 3 of the 16 bentonite bags surrounding the slurry
pond are ripped/and or open, but in no way are they affecting the security of the fence
surrounding the pond. Cover is missing from the segregated soils pile.

APPENDIX E

Final Air Monitoring Report

**AMBIENT PERIMETER AIR MONITORING
SUMMARY REPORT
FORMER MANUFACTURED GAS PLANT
HAMMOND, INDIANA**

by

**Haley & Aldrich, Inc.
Indianapolis, Indiana**

for

NiSource

**File No. 12758
15 May 2009**

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1. INTRODUCTION

1.1 Purpose and Goals

This report documents the ambient perimeter air monitoring conducted during the remediation activities at the former manufactured gas plant (MGP) located at 4912 Hohman Avenue, Hammond, Indiana (Figure 1). The goals of the ambient perimeter air monitoring program were to evaluate fugitive emissions during impacted soil handling, to facilitate the implementation of prompt emission controls (when appropriate) and to document fence line concentrations to evaluate potential risk to off-site receptors during the period of construction.

1.2 Site Location and Description

The former MGP Site is approximately 5 acres in size. Figure 2 is a plan of the Site. The Site is zoned commercial however; property use in the area of the Site is a mix of commercial and residential.

Adjoining properties include:

North: Grand Calumet River beyond which is Railroad property;
East: Renaissance Towers (524 E. Michigan Street);
South: DJ'S Towing and Storage (4918 Paxton Street), B&W Tire Sales (5004 Hohman Avenue);
West: Norfolk Southern railroad property beyond which is undeveloped land.

1.3 Summary of Remediation Work

The Site remediation included clearing and grubbing, construction of a groundwater barrier wall, installation of dewatering trenches, piping, and conduit trenches, and construction of a pre-treatment building. As the Site remediation activities were complete, the goals for the Site were achieved by re-using potential source material, properly disposing of waste, installing cover material across portions of the Site, and limiting Site use in the future.

2. AMBIENT PERIMETER AIR MONITORING

An Ambient Perimeter Air Monitoring Plan (AMP) was developed and implemented at the Site during intrusive remedial work activities (i.e.; those activities which disturbed impacted soils or groundwater, or were likely to generate odors or air emissions from impacted soils or groundwater) to assess emissions real-time and document fence line concentrations to evaluate potential risk to off-site receptors. The monitoring work was completed in general accordance with the AMP which is attached (Appendix A). The primary components of the AMP are:

1. Development of an AMP, including identification of constituents of interest (COI) and action limits.
2. Field implementation.
3. Off-site receptor risk evaluation.

2.1 Constituents of Interest & Site Specific Action Levels

The COI were determined as part of the AMP preparation based on maximum concentrations of compounds detected in soil during previous investigations. COI which were identified in the AMP to be monitored include volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), and particulate matter.

The Site-specific action level is a screening value concentration used by on-site personnel during perimeter air monitoring as the maximum allowable concentration that is protective of off-site receptors. This screening value effectively serves as the action level for implementation of fugitive emissions controls or alteration of construction procedures to reduce emissions. The results of dispersion modeling were used to develop action levels for potential COI in fugitive air emissions at the Site boundary that are protective of the closest potential off-site receptors (Appendix A). The COIs monitored during remedial construction activities, and their acceptable ambient concentrations (AAC), are summarized in the below:

<u>COI</u>	<u>AAC</u>
Benzene	0.090 mg/m ³
Toluene	0.40 mg/m ³
Ethylbenzene	1.0 mg/m ³
Xylenes	0.30 mg/m ³
Naphthalene	0.010 mg/m ³
Benzo(a)pyrene	0.00036 mg/m ³

Benzene was identified as the volatile organic COI with the greatest concern of toxicity to potential off-site receptors; therefore, the AAC for benzene was used to establish the fence line screening level for VOCs.

Exposure to metals was controlled through monitoring dust. The national inhalable coarse particle daily PM₁₀ standard of 150 micrograms per cubic (ug/m³) (effective 21 September 2006) was used as the screening AAC for off-site exposures to potential COI as particulates.

2.2 Monitoring Activities

Four (4) field screening stations were established along the fence line in the general directions of north, east, south, and west (see Figure 2). One additional monitoring location was established on the opposite side of Hohman Avenue as an off-site location, at which a sample was collected once a month to compare to the concentrations estimated by the predictive model.

Between 25 October and 21 December 2007; and 24 July and 7 October 2008, field screening activities were generally conducted at the four perimeter locations on an hourly basis during periods of active remedial construction work. This included real-time measurements of total VOCs (TVOC), for which a parts per billion (ppb) photo ionization detector (PID) was used to screen ambient air for fugitive concentrations of VOCs. If fence line PID readings indicated a sustained average concentration of VOCs in ambient air greater than 0.25 parts per million (ppm) for a period of 5-minutes, the benzene concentration was measured with a Draeger Chip Measurement System (CMS) (detection limit of 0.2 ppm). Sustained concentrations of benzene in air at the fence line greater than 0.25 parts per million by volume (ppmv) for periods greater than 5 minutes required implementation of engineering controls or modification of work activity.

Hourly real-time measurements of particulate matter in air less than 10 microns in size (PM10) in perimeter ambient air were also made at the four designated fence line air monitoring locations. This monitoring was conducted with a portable particle sizing aerosol monitor (the *personal* DataRAM) with the capability to measure PM10 concentrations as low as 1 ug/m³. Sustained average concentrations of PM10 in perimeter ambient air greater than 0.150 mg/m³ for a sustained amount of time (5-10 minutes) require implementation of engineering controls or modification of work activity to reduce dust levels until the sustained average concentration of PM10 in ambient perimeter air was less than the action level (0.150 mg/m³).

Constituent-specific samples, generally with an 8- to 10-hour time-weighted-average (TWA), were collected from the four fence line monitoring locations. Calibrated air pumps were used for continuous flow air sampling to pull ambient air through PAH sorbent media at a target flow rate of 2.0 liters per minute. (see Appendix B for air pump flow data). Calibrated air pumps were also used to pull ambient air through charcoal sorbent media for the collection of VOC samples at a target flow rate of 1.0 liters per minute. To determine the amount of ambient dust present at the fence line, calibrated air pumps were used. The ambient air passed through hydrophobic filters (contained within a plastic cassette) at a target rate of 2.0 liters per minute. Air sampling equipment was placed to collect ambient air samples from a height of approximately five feet above ground.

Since the air monitoring program for fugitive emissions resulted in the collection of a large number of samples, a project decision-rule system was used to prioritize the samples for analysis (i.e.; one sample location each day was selected for expedited turn around for VOCs and PAHs, and both sample locations for ambient dust measurements were analyzed). Daily field activity, meteorological conditions, and real-time screening data collected at the fence line were evaluated and used to select what was interpreted to be the “worst case” sample for each day of monitoring. This sample location was identified to the laboratory and analyzed on an expedited schedule; the remaining samples were not analyzed but depending on the initial results could have been analyzed inside of a 14-day maximum holding time.

Quality assurance (QA) and quality control (QC) checks were performed to evaluate the precision, accuracy, representativeness, comparability, and completeness of field screening and constituent-specific analytical data collected. Measures of QA/QC for air quality monitoring data included:

- Daily documentation and review of records;
- Field calibration logs;
- Field duplicate sampling (1/week);
- Sample management chain-of-custody;
- Laboratory certifications and QA/QC programs;
- Laboratory certification of sample containers;
- Laboratory method blanks, surrogate spikes, matrix spikes, laboratory control samples and laboratory duplicate samples;
- Laboratory review of data for release; and
- Data-User validation of data quality objectives for data use (DQOs).

3. RESULTS

3.1 Field Screening Data

The average and average daily maximum values of TVOCs and particulates for the four sample locations and the off-site location are summarized in Table I. The averages for each sample location throughout the duration of the project were below the action level for both TVOCs and particulates (PM10). The average maximum for detected values at the locations for TVOCs was below the action level of 0.25 ppm. Likewise, the average maximums for PM10 particulates were below the action level of 15 mg/m³

There were occasions in which the action levels were exceeded (see Appendix C) during an hourly screening event for both TVOCs and total particulates. However fugitive emissions and/or particulates were not elevated for a sustained period (defined as greater than 5 minutes) so no action was performed.

3.2 Constituent-Specific Analysis

Table II summarizes the average concentrations for the COI [benzene, toluene, ethylbenzene, xylenes, naphthalene, and benzo(a)pyrene (B(a)P)] for the air monitoring program. Although some exceedances of the AAC occurred on some days for naphthalene, the average of each COI was below its respective AAC. The laboratory data sheets are contained in Appendix D in electronic form. Averages were calculated using half the reporting limits for non-detect results.

The results of the COI prioritized samples are provided in Table III and summarized below:

- Benzene concentrations ranged from below detection limit of 0.001 mg/m³ to 0.010 mg/m³, and the AAC is 0.090 mg/m³.
- Toluene concentrations ranged from below detection limit of 0.001 mg/m³ to 0.004 mg/m³, and the AAC is 0.040 mg/m³.
- Ethylbenzene concentrations ranged from below detection limits of 0.001 mg/m³ to 0.004 mg/m³, and the AAC is 1.00 mg/m³.
- Xylenes (total) concentrations range from below detection limit of 0.001 mg/m³ to 0.010 mg/m³, and the AAC is 0.30 mg/m³.
- Naphthalene concentrations ranged from below detection limit of 0.002 mg/m³ to 0.009 mg/m³, and the AAC is 0.010 mg/m³.
- B(a)P concentrations did not exceed the laboratory detection limit which ranged between 0.002 mg/m³ and 0.005 mg/m³, and the AAC is 0.00032 mg/m³.

The results of the particulate prioritized samples are provided in Table IV and all the samples were below the action limit of 15 mg/m³, which has been determined by the U.S. EPA.

Hazard and Risk Indices

A Hazard Index (HI) for non-carcinogenic effects was calculated for each COI by dividing the predicted receptor concentration by the appropriate AAC (non-carcinogenic). The sum of the hazard indices for all constituents is the Total Hazard Index (THI). A THI value less than 1 indicates that the combined effect of the COI is not likely to pose a significant health risk. A similar approach was used for the principal constituents that pose a potential carcinogenic risk. A Risk Index (RI) was calculated for the principal COI by dividing the predicted concentration by the appropriate risk-based criteria associated with a 10^{-5} excess cancer risk (Ohio VAP Guidelines). The sum of the risk indices for all constituents is the Total Risk Index (TRI). A TRI value less than 1 indicates that the combined effect of the COI is not likely to pose an excess cancer risk greater than 10^{-5} .

THI and TRI were calculated using the prioritized field sample (anticipated highest concentration) for each day of remediation activity and therefore likely overestimate the actual THI/TRI. Prioritized samples are characterized as the predicted highest concentration results for that day, analyzed with an expedited turn around time.

The cumulative averages for TRI and THI were 0.491 and 0.023, respectively. These data indicate that the fugitive emissions from the remediation work did not result in an excess cancer risk of greater than 10^{-5} , or a significant health risk. TRI and THI cumulative averages are graphed in Figures 3 and 4, respectively. The THI and TRI did not exceed the acceptable criteria during the project implementation.

4. CONCLUSIONS

Ambient perimeter air monitoring and sampling was conducted between 25 October and 21 December 2007; and 24 July and 7 October 2008 to collect data to facilitate timely response to odors and emissions, and to assess potential health risks to off-site receptors during the Site remediation work. As discussed in detail below, no unacceptable health risk to off-site receptors occurred as a result of the soil remediation work.

Air samples were collected for laboratory analysis for VOCs, PAHs, and dust particulates. The results of these analyses were used to calculate potential risk to offsite receptors. The following observations were made based on these data:

- Average concentrations throughout the duration of the project were below half the action level for both TVOCs and PM10 at the four fence-line locations. The average maximum detected values for TVOCs, was below the action level of 0.25 ppm, and the average maximum values for PM10 was below the action level of 15 mg/m³.
- Based on our evaluation of potential exposures, the soil remediation work resulted in a condition of no unacceptable risk to off-site receptors from air emissions. Specifically:
 - The total hazard index calculated from data collected during the air monitoring program was 0.023, which is below the established project criteria of 1.0.
 - The total risk index calculated from data collected during the air monitoring program was 0.491, which is below the established project criteria of 1.0.

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6. U.S. Environmental Protection Agency, Office of Air Quality Planning and Standards Emissions, Monitoring, and Analysis Division, September 1995. *SCREEN3 Model User's Guide*.

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APPENDIX A

Ambient Perimeter Air Monitoring Work Plan

**AIR MONITORING PLAN
(NINETY PERCENT DESIGN)
UPLAND REMEDIAL ACTION AT THE
FORMER NIPSCO MANUFACTURED GAS
PLANT
HAMMOND, INDIANA**

**NORTHERN INDIANA PUBLIC SERVICE
COMPANY
801 EAST 86TH AVENUE
MERRILLVILLE, INDIANA 46410**

NOVEMBER 2007

SME

Sevee & Maher Engineers, Inc.
Waste Management and Hydrogeologic Consultants
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1.0 INTRODUCTION

This Air Monitoring Plan (AMP) has been prepared to outline the requirements and methods for monitoring the quality of ambient air during the Upland Remedial Action. The purpose of the monitoring program is to document air quality at the perimeter of the remedial construction site. The program will consist of daily sampling during the period of project execution. Air quality will be compared to the limits established under appropriate health and safety protocols, regulatory guidance, and NiSource Guidance documents for air monitoring at former MGP sites.

The use of the data collected during the monitoring program and the objectives of this monitoring plan are:

1. Document outdoor air quality concentrations of target Constituents of Interest (COIs) for averaging of potential exposure periods that correspond to the Remedial Action Contractor's daily work schedules;
2. Collect samples at the perimeter of the remediation site to document background air quality that may extend beyond the site perimeter exclusion zone;
3. Evaluate and document the potential for off-site receptor exposure to target COI; and
4. Assess the effectiveness and the need to implement odor control or abatement measures employed by the Remedial Action Contractor during the remedial action as related to potential off-site fugitive emissions.

1.1 Project Description

The Upland Remedial Action is the first operable unit of the site-wide Remedial Action Plan for the former Northern Indiana Public Service Company (NIPSCO) Manufactured Gas Plant (MGP) in Hammond, Indiana. The project address is 4912 Hohman Avenue. The site location is at Latitude is 41 degrees, 37 minutes and 28 seconds and Longitude is 87 degrees, 31 minutes, and 10 seconds. Figure 1 shows the site and surrounding area.

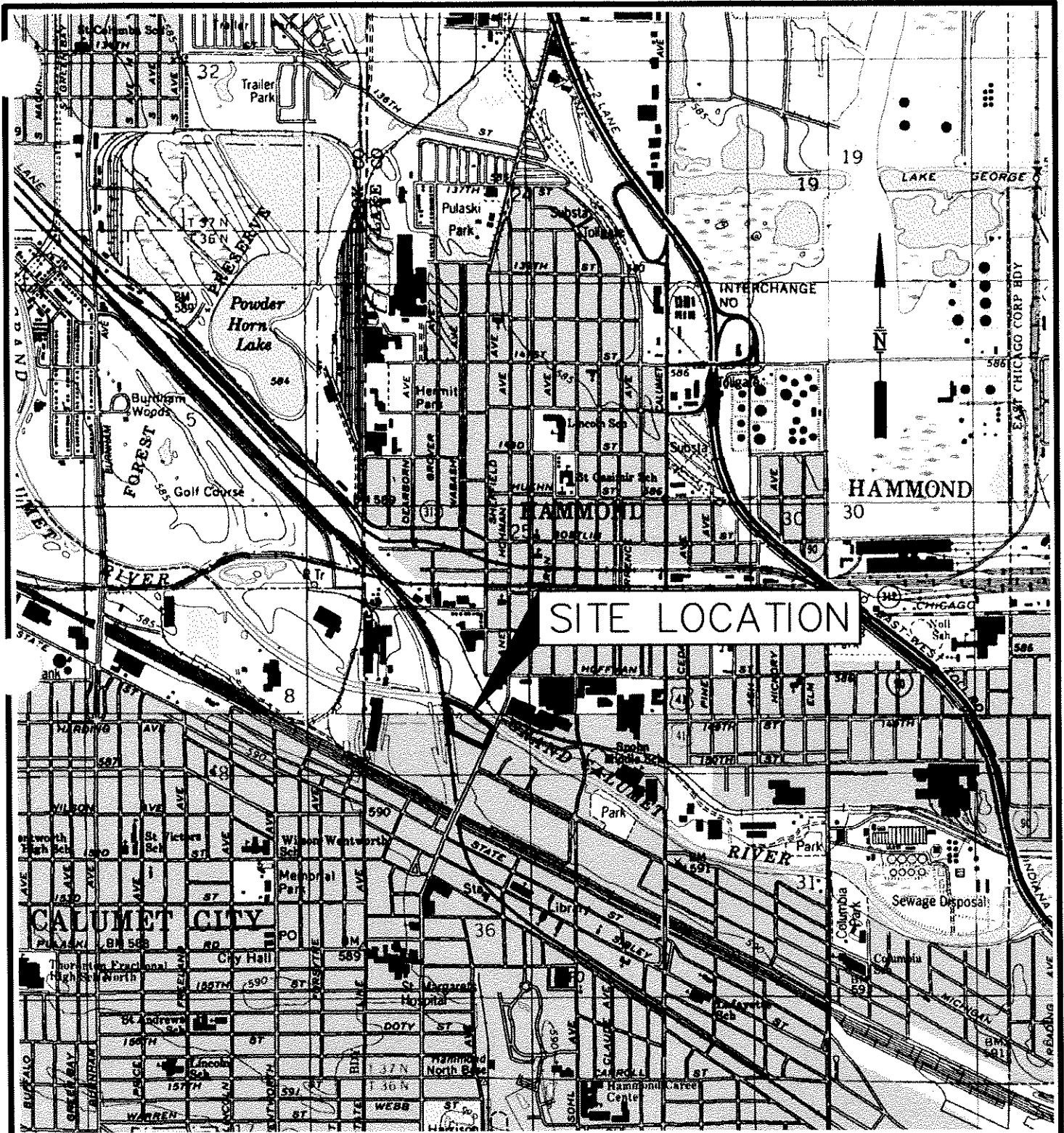
The site currently is an abandoned former industrial site, approximately 5 acres in size, with all above ground structures removed. The property has been identified as containing MGP residuals as a result of past gas manufacturing plant operations. The Upland remedial action will be performed in accordance with the Remediation Work Plan and the Agreement and Order for Voluntary Remediation. The proposed work at the site is shown on Figure 2.

The project includes clearing and grubbing the site, installation of a deep extraction well, groundwater barrier wall construction, installation of dewatering trenches, excavating of piping and conduit trenches and construction of a pre-treatment building. Exposure to the MGP COIs may occur through volatilization of any of those compounds contained in the excavation spoils or through contact with any fugitive dust containing COIs created due to the construction process.

1.2 Air Monitoring Program Overview

Air sampling activities will be conducted in two phases:

1. The first phase of sampling will establish baseline or background concentrations at the site prior to remedial activities, specifically soil disturbance. Baseline conditions will be determined utilizing real-time data and laboratory data that will be collected at least 7 days before the start of invasive trench excavation work.



BASE MAP ADAPTED FROM 7.5 MIN
 USGS TOPOGRAPHIC QUADRANGLES
 WHITING, IN-1998
 LAKE CALUMET, IL-1997
 HIGHLAND, IN-1998
 CALUMET CITY, IL-1998



FIGURE 1
 SITE LOCATION MAP
 NIPSCO
 UPLAND REMEDIAL ACTION
 FORMER MGP SITE
 HAMMOND, INDIANA



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DWG: SITELOC LMN: CTB: HPSTD REV: 1/18/07

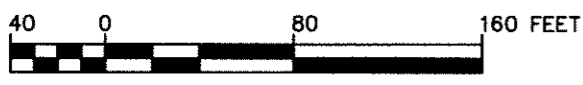
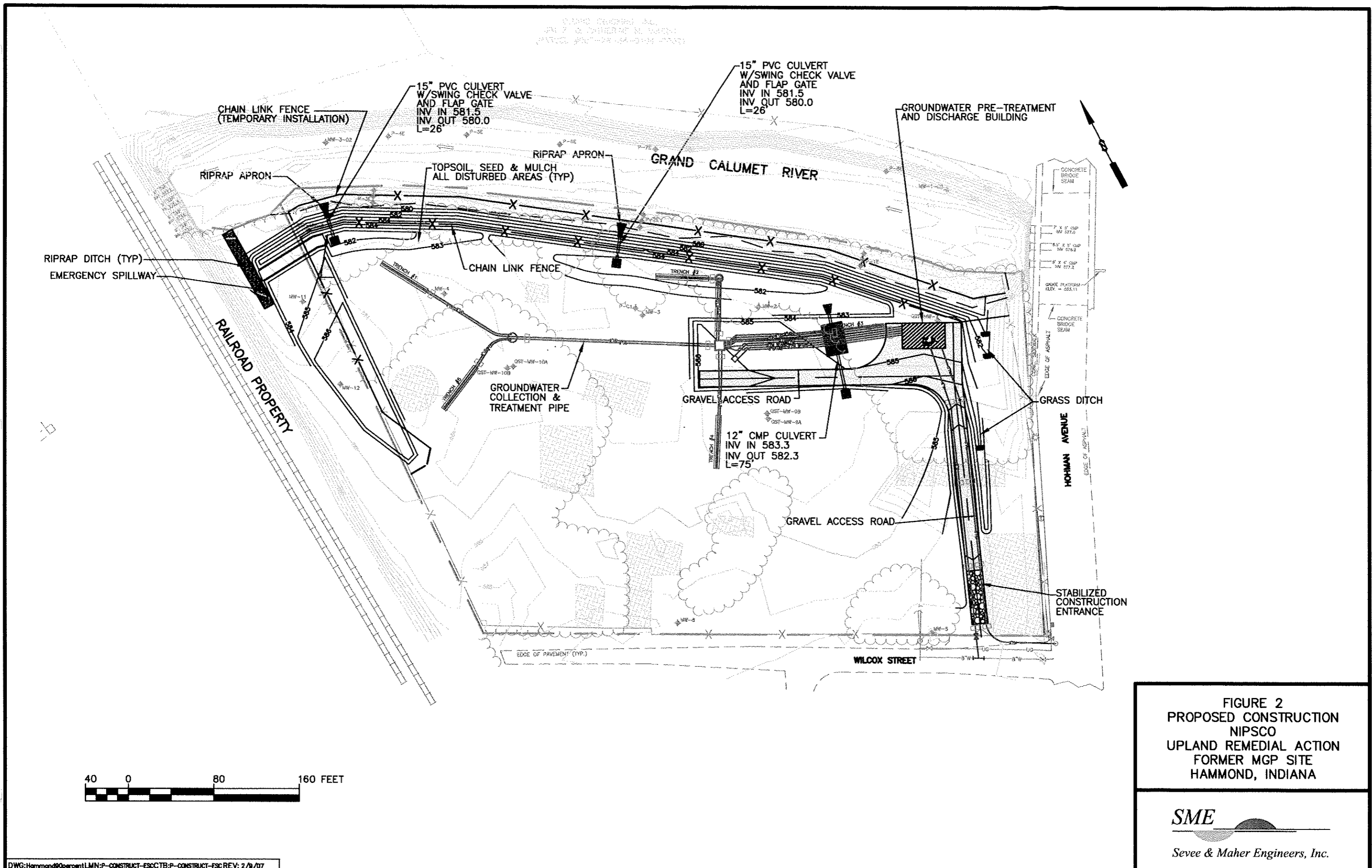


FIGURE 2
 PROPOSED CONSTRUCTION
 NIPSCO
 UPLAND REMEDIAL ACTION
 FORMER MGP SITE
 HAMMOND, INDIANA

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2. The second phase of sampling will be conducted during the daily construction tasks to document ambient air conditions at the site perimeter and to compare these conditions to the established action level criteria determined for the site. This will include hourly and real-time air sample collection for the documentation of general and transient conditions assessment during the remedial construction.

Data will be collected from four locations on the Site perimeter. This monitoring will be conducted utilizing a direct reading aerosol (particulate) monitor, organic vapor monitors, continuous flow air monitoring devices, and real-time techniques properly calibrated per manufacturers specifications.

Additionally, based on site and atmospheric conditions, assessments of COI concentrations will be performed both within and around the surrounding areas of the site.

This AMP has been prepared using “Guidance Document Air Monitoring at Former MGP Sites” (RETEC) (RETEC, 2003) as a source reference.

2.0 AIR QUALITY CONSTITUENTS OF INTEREST

2.1 MGP Constituents of Interest

The Gas Research Institute (GRI) has compiled information related to the principal compounds that have been found at MGP sites (GRI, 1996). This information is summarized in Table 2-1. As indicated the constituent groups include volatile and semi-volatile organic compounds, metals and other inorganic compounds. The principal volatile organic compounds (VOCs) are benzene, toluene, ethyl benzene, xylene (BTEX), and styrene. Other VOCs, including chlorinated compounds, were not typically associated with MGP operations and have generally not been found at MGP sites. Gasoline-like odors were reported on logs of soil borings completed in the southern portion of the site in July 2007. Should free-product be identified during subsequent investigations or upon start-up of groundwater extraction, design changes may be required.

The semi-volatile compounds typically encountered at MGP sites are the polynuclear aromatic hydrocarbons (PAHs). Of the PAHs typically found naphthalene and phenanthrene are generally present at higher concentrations. The inorganic compounds and metals typically related to MGP sites are ammonia, ferro/ferric cyanide, nitrate, sulfate, sulfide, thiocyanates, aluminum, antimony, arsenic, barium, cadmium, chromium, copper, iron, lead, manganese, mercury, nickel, selenium, vanadium and zinc.

2.2 Water and Soil Investigations

Investigations to identify and quantify chemical compounds in the soils and groundwater were undertaken in 1997 and 1998. The results of those investigations identified that the typical constituents associated with former MGP sites are present at the Hammond Site. A summary of the available data showing average and maximum concentrations is provided in Table 2-2. The air monitoring program will include analyses for these constituents during the constituent-specific sampling program for the site construction as detailed in Subsection 4.2.

Table 2-1
Constituents of Interest- Former MGP Sites

Volatile Organic Constituents
Benzene
Toluene
Ethylbenzene
m & p-Xylene
o-Xylene
Styrene
Semi-Volatile Organic Constituents
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(g,h,i)perylene
Benzo(k)fluoranthene
Chrysene
Dibenz(a,h)anthracene
Dibenzofuran
Fluoranthene
Fluorene
Indeno(1,2,3-cd)pyrene
Naphthalene
1-Methylnaphthalene
2-Methylnaphthalene
Phenanthrene
Pyrene
Phenol
2,4-Dimethylphenol
2-Methylphenol
4-Methylphenol
Inorganic Constituents
Arsenic
Cyanide complexes
Lead

Reference: Management of Manufactured Gas Plant Sites
Volume 1, Gas Research Institute, 1996

Table 2-2 Summary of Detected Constituents in the Soil and Ground Water at the Former Hammond MGP Site

VOCs	Groundwater (µg/l)		Soil (mg/kg)	
	Average	Max	Average	Max
Benzene	747	3500	0.67	8.4
sec-Butylbenzene	N/T	N/T	0.23	1.25
tert-Butylbenzene	N/T	N/T	0.28	1.25
Carbon disulfide	N/T	N/T	0.23	1.25
Ethylbenzene	384	2500	10.9	260
Isopropylbenzene	34	100	1.2	12
p-Isopropyltoluene	N/T	N/T	0.48	4.1
n-Propylbenzene	26	100	0.39	3.5
Toluene	20	100	0.21	1.7
1,2,4-Trimethylbenzene	78	170	5.4	44
1,3,5-Trimethylbenzene	26	100	1.7	14
Xylenes,(Total)	417	2500	7.1	140

Polynuclear Aromatic

Hydrocarbons

	(µg/l)		(mg/kg)	
Accenaphthene	113	500	105	760
Accenaphthylene	101	500	14	160
Anthracene	35	250	63	400
Benzo(a)anthracene	4	25	36	230
Benzo(a)pyrene	17	125	30	280
Benzo(b)fluoranthene	4	25	15	160
Benzo(k)fluoranthene	15	125	19	160
Benzo(ghi)perylene	16	125	12	80
Chrysene	16	125	38	260
DiBenzo(a,h)anthracene	6	50	10	80
Fluoranthene	21	125	65	320
Fluorene	78	500	53	370
Indeno(1,2,3-cd)pyrene	4	25	14	160
Naphthalene	1574	7950	139	1300
Phenanthrene	53	250	162	1100
Pyrene	23	125	112	700

Metals

	(µg/l)		(mg/kg)	
Arsenic, ICP	N/T	N/T	12	13
Barium, ICP	123.4	180	28	55
Cadmium, ICP	N/T	N/T	0.3	2
Chromium, ICP	N/T	N/T	4	8
Lead, ICP	N/T	N/T	23	100
Mercury, CVAA	N/T	N/T	0.3	3
Selenium, ICP	N/T	N/T	13	13
Silver, ICP	N/T	N/T	0.3	0.3

Cyanide

	(µg/l)		(mg/kg)	
Cyanide	40.5	100	4	34

Notes:

N/T is designated where test results were not reported.

3.0 SITE-SPECIFIC ACTION LEVELS

Known Standards for maximum concentrations of COIs in ambient air that are considered protective of on-site workers and off-site receptors have been reviewed for use in this AMP. Site-specific action levels were established based on the standards and guidelines set by the Occupational Safety and Health Administration (OSHA), the National Institute of Occupational Safety and Health (NIOSH), and the U.S. Environmental Protection Agency (U.S.EPA). A summary of OSHA's Permissible Exposure Limits (PELs) for typical MGP COI is presented in Table 3-1 (RETEC, 2003).

Benzene will be used as the indicator COI during the Remedial Action work, because it is the volatile contaminant with the lowest exposure limit, likely to be detected. Subchronic reference concentrations (RfCs) have been compiled from the U.S.EPA's Integrated Risk Information System (IRIS) database and are located in Table 3-2. These RfCs will be used for Ambient Air Concentrations for off-site receptors.

**TABLE 3-1
OCCUPATIONAL CRITERIA FOR MGP CONSTITUENTS**

Compounds	OSHA Standards, PEL, 8 Hr TWA	
	(mg/m ³)	ppmv
Volatile Constituents		
Benzene	3.25	1.0
Toluene	750	197.8
Ethylbenzene	435	99.6
Xylenes	435	99.6
Styrene	430	100.3
Napthalene	50	9.5
Particulate Matter		
Total Dust	15	-
Arsenic	0.5	-
Lead	0.1	-
Benzo(a)Pyrene	0.2	-

Table 3-2 Acceptable Ambient Concentration (AAC) for MGP Constituents of Interest

Constituent	Selected Subchronic RfC		Notes
	(mg/m ³)	(ppmv)	
Benzene	0.09	0.03	(a)
Toluene	0.4	0.11	(b)
Ethylbenzene	1.0	0.23	(c)
Xylene	0.3	0.07	(d)
Styrene	3.0	0.70	(e)
Naphthalene	0.01	0.002	(f)
2-Methylnaphthalene	0.01	0.002	(g)
Acenaphthene	2.1	0.33	(h,i)
Acenaphthylene	2.1	0.34	(j)
Anthracene	10.0	1.36	(k,i)
Benzo(a)anthracene	1.0	0.11	(m)
Benzo(a)pyrene	1.0	0.10	(m)
Benzo(b)fluoranthene	1.0	0.10	(m)
Benzo(g,h,i)pyrene	1.0	0.10	(m)
Benzo(k)fluoranthene	1.0	0.10	(m)
Chrysene	1.0	0.11	(m)
Dibenzo(a,h)anthracene	1.0	0.11	(m)
Fluoranthene	1.4	0.17	(n,i)
Fluorene	1.4	0.20	(o,i)
Indeno(1,2,3-c,d)pyrene	1.0	0.09	(m)
Phenanthrene	10.0	1.36	(p)
Pyrene	1.0	0.12	(l,i)

Notes:
 IRIS - Integrated Risk Information System, an online computer database of toxicological information (April 2003).
 MGP - Manufactured Gas Plant.
 RfC - Reference Concentration, Inhalation Route.
 RfD - Reference Dose, Oral Route.
 UF - Uncertainty Factor.

(a) - IRIS; based on an occupational inhalation study in humans; the chronic RfC is 0.03 mg/m³ and the subchronic to chronic duration UF is 3.
 (b) - IRIS; based on the chronic RfC, no adjustment was made for a subchronic exposure as the study examined humans exposed occupationally for approximately 2.5 to 8.9 years, which encompasses the subchronic duration of 0-7 years.
 (c) - IRIS; based on inhalation developmental toxicity studies in rats and rabbits. Because exposure during gestation is a subchronic duration, no adjustment is made to extrapolate the chronic RfC to a subchronic duration.
 (d) - IRIS; based on a subchronic inhalation study in male rats; the chronic RfC is 0.1 mg/m³ and the subchronic to chronic duration UF is 3.
 (e) - IRIS; based on an occupational study in humans; the chronic RfC is 1 mg/m³ and the subchronic to chronic duration UF is 3.
 (f) - IRIS; based on a chronic mouse inhalation study; the chronic RfC is 0.003 mg/m³, and the database deficiencies UF is 3.
 (g) - Based on structural similarities, the value for naphthalene is used.
 (h) - IRIS; based on route-to-route extrapolation from a chronic oral RfD of 0.06 mg/kg-day and a subchronic to chronic duration UF of 10.
 (i) - RfD converted to an RfC by assuming a 70 kg adult breathes 20 m³ air per day (conversion factor = 70/20 = 3.5).
 (j) - Based on structural similarities, the value for acenaphthene is used.
 (k) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.3 mg/kg-day and a subchronic to chronic UF of 10.
 (l) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.03 mg/kg-day and a subchronic to chronic UF of 10.
 (m) - Based on structural similarities, the value for pyrene is used.
 (n) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.04 mg/kg-day and a subchronic to chronic UF of 10.
 (o) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.04 mg/kg-day and a subchronic to chronic UF of 10.
 (p) - Based on structural similarities, the value for anthracene is used.

3.1 VOC Action Levels for Off-Site Receptors

The development of an action level for the Site needs to take into account the following factors:

Short-term results provided by on-site screening measurements are not consistent with the long-term averaging period for the health-based standards for residential exposures: and

The potential for off-site exposure is significantly influenced by local meteorological conditions and the proximity of the receptor to the site.

The use of a dispersion model, in this case the U.S.EPA SCREEN3 Model, can predict ground level concentrations of pollutants using a set of meteorological conditions and relationships between different averaging periods and locations. This analysis will be refined periodically during the program using procedures outlined in Subsection 4.3.3. A wind-resistant barrier will be installed over the fence on-site to concentrate the potential contaminant plume, create turbulence for mixing and elevate the contaminant plume to the top of the fence. By doing so a monitoring location is created that will be coincident with the maximum off-site concentration of COIs.

Calculations using the modeling results provide a series of scaling factors (RETEC, 2003). These scaling factors can be used to estimate the field screening value associated with the AAC applied at various off-site receptor locations and program durations. These calculated screening values can be viewed as the maximum fence line concentrations that are protective of off-site receptors, and can serve as action levels for implementing additional Site controls.

The measured distance from the Upland Remedial Action project to the nearest potential receptor is approximately 10 m (32.8 feet). SCREEN3 was run to obtain scaling factors for this distance relative to the fence line concentrations for various aspect ratios (Appendix A). The model results in an action level of 0.25 parts per million by volume (ppmv) (0.81 mg/m^3) [based on the conversion factor of; $1 \text{ ppm} = 3.24 \text{ mg/m}^3$], for a 1-hour concentration at the fence line relative to Benzene. Therefore, if the Site is controlled so that the short-term fence line concentration of

Benzene is less than the 0.25 ppmv action level, then this will ensure compliance with the risk based standard at the nearest receptor, and therefore be protective of all off-site receptors.

3.2 Fugitive Dust Action Level for Off-Site Receptors

For dust, the conservative action level of 15 mg/m³ will be used; this value is consistent with short-term (24-hr.) ambient concentrations that have been determined by the U.S.EPA to be protective of the health of sensitive residential receptors (RETEC, 2003).

4.0 CONSTRUCTION AIR MONITORING

The monitoring program designed for the Site is intended to produce sufficient information for controlling the potential risk from fugitive emissions on an on-going basis. At the Site, a photo-ionization detector (PID) will be used to measure volatile constituent concentrations in the air, and if volatiles are detected, then a benzene-specific field screening tool will be used to compare ambient air conditions with the established action level. Additionally, off-site analysis will be conducted on an on-going basis to quantify potential risk of potential receptors and verify the modeling. The approach for the Site air monitoring program is provided below.

4.1 Field Screening Methods

Four fence line monitoring locations will be established at the approximate locations as shown in Figure 3. These locations are selected so as to monitor upwind, downwind, and locations perpendicular to the wind direction relative to the work area.

Field screening will be conducted at each of the locations on an hourly basis during periods of remedial activity at the Site. These activities will be conducted using direct reading instruments that monitor air quality on a real-time basis.

4.1.1 Volatile Organic Constituents. To monitor for volatile organic compounds (VOCs), a PID such as the ppbRAE as manufactured by Rae Systems, or equivalent, will be used, which will be equipped with a 10.6 eV detector lamp. The PID detects the presence of VOCs in part per billion by volume (ppbv) concentration, when calibrated to a known concentration of a benzene substitute compound, such as isobutylene. If the total hydrocarbon concentration approaches or exceeds the VOC action level of 0.25 ppmv (250 ppbv, assumed to be benzene), then the Chip Measurement System (CHS) with a detection limit for benzene down to 0.2 ppm will be used. If detections are observed to be above this action level, then the Site's remedial activities will be halted, a reassessment of the activities will be performed, and alternate methods to reduce the

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DAME ENGINEERING, INC.
200 A. S. CANTRELL BLVD. SUITE 100
HAMMOND, INDIANA 46324-1001

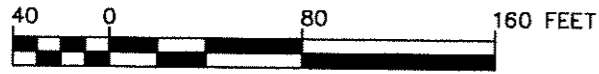
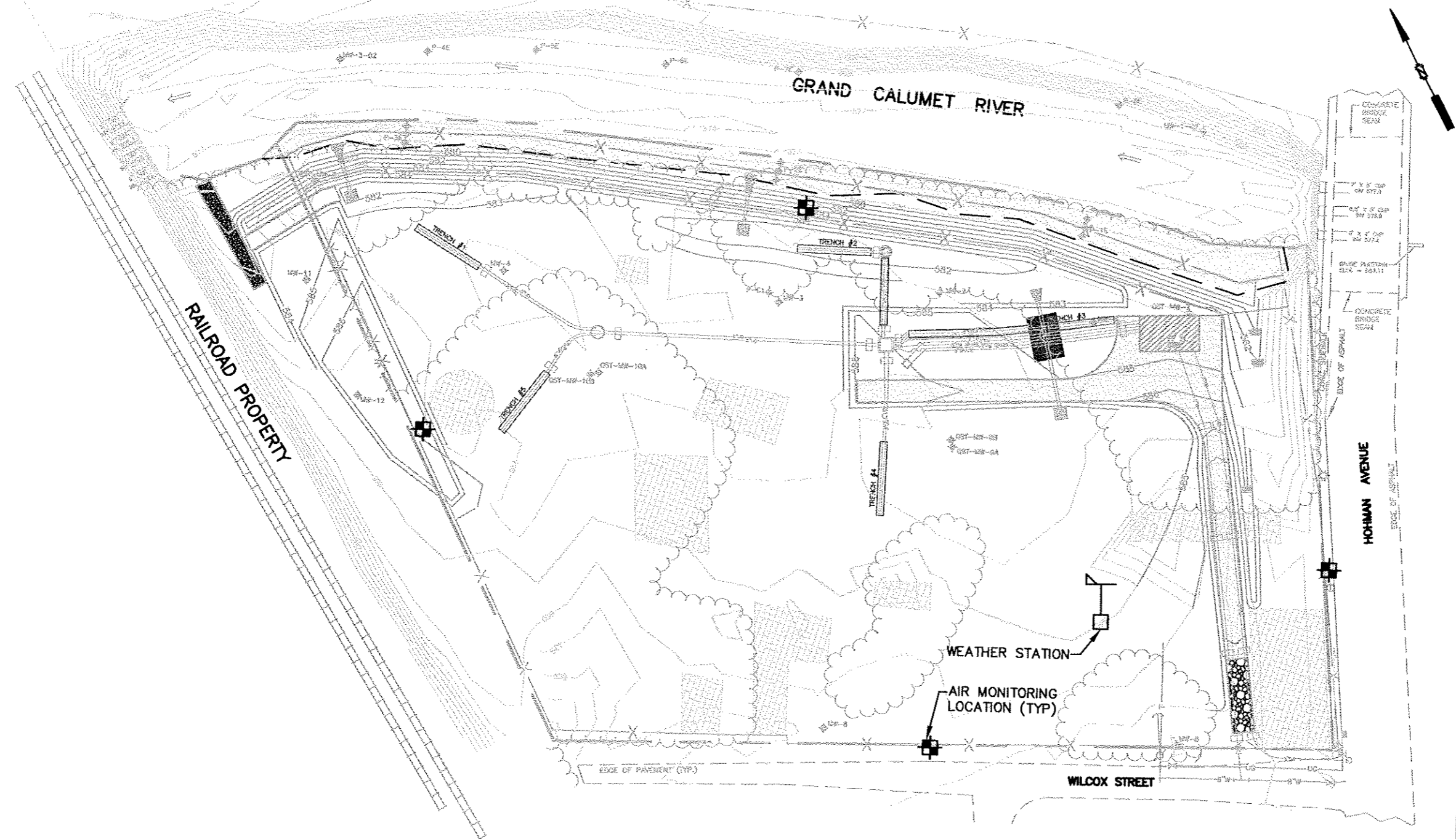


FIGURE 3
AIR MONITORING LOCATIONS
NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA

SME
Sevee & Maher Engineers, Inc.

off-site emissions of volatile compounds (e.g., odor suppression through application of soil or physical covers to the excavated trench area, or use of a blanketing foam) will be enacted. If detections around the action levels are detected, then analysis using a gas chromatograph (GC) may be initiated. Whether this level of analysis is required or not will be discussed with project principals once analytical data have been collected and processed.

4.1.2 Particulate Matter. An aerosol meter will be used to provide screening results for particulate matter. This direct reading instrument (the *personal* DataRAM, or equivalent) has a measurement range from 0.001 to 400 mg/m³, and provides appropriate sensitivity for site applications.

Data for both the volatile and particulate instruments will be collected at all four fence line locations and results will be documented in a field log book or data sheet. Since there may be some fluctuation in readings for both instruments, the mode values over a 10- to 15-second period will be recorded during hourly measurements

These direct reading instruments will be calibrated on a daily basis and maintained in accordance with the manufacturer's specifications. All real-time monitoring data will be logged. Data records will be referenced to site location, time and date of reading, and the initials of the field technician. The monitoring information will be downloaded and reviewed with the documentation package to ensure that airborne levels at the site perimeter are less than the established site action levels.

4.2 Constituent-Specific Monitoring

A full characterization of air quality requires the performance of additional constituent-specific sampling to verify that the site action levels and engineering controls are protective of human health.

4.2.1 Sampling Locations and Frequency. Constituent-specific samples will be collected from the four fence line locations shown in Figure 3 to ensure the collection of representative data. One duplicate sample per day will be collected at one of the locations as well. Samples will be collected during the active working period on site for each day that remedial activities are conducted, generally during the hours of 7 AM to 5 PM. Pumps will be installed at continuous flow air monitoring stations established at the four monitoring locations. The pumps pull ambient air through analytical detector tubes at a constant flow rate. The devices, set at the top of the fabric fence cover, approximately 5 feet above ground, will be deployed at the beginning of each day prior to any remedial activities taking place. The continuous sampling devices will be removed at the end of each work day, and the samples sent off site for laboratory preservation and prioritized analysis. All samples collected will be sent to the laboratory at the end of each day of monitoring.

The locations of these continuous monitoring devices should remain the same throughout the program, but may be modified during construction activities due to the location, nature and intensity of site activity, results of the contractors' health and safety monitoring program, or at the direction of NiSource. Modifications of monitoring locations shall be documented.

4.2.2 Constituents of Interest. The target list of COI is listed below.

Compound Group	Detection Limit	Sampling Method	Sorbent/Media	Sampling Period
VOCs	5 µg/m ³	Modified NIOSH 1501	Charcoal	8 – 10 hrs.
PAHs	3 µg/m ³	NIOSH 5515	XAD-2	8 hrs.
Particulate Matter	0.3 mg/m ³	Modified NIOSH 0500	Filter	8 hrs.

The VOCs include benzene, toluene, ethylbenzene, and total xylenes. The PAHs include naphthalene, anthracene, benzo(a)anthracene, benzo(a)pyrene, chrysene, phenanthrene, and pyrene.

Example Standard Operating Procedures (SOPs) for air sampling are presented in Appendix B. Prior to monitoring activities Site specific SOPs following the examples will be developed using the most recent versions of the appropriate methods. Ref [1 & 3]

For particulate sampling, two of the four locations will be sampled each day using a continuous sampling pump. The two locations will be determined at the beginning of each day based upon the current or predicted meteorological conditions. Locations will be placed so as to monitor the upwind and downwind locations relative to the site. All four locations will be sampled with continuous sampling pumps for VOCs and PAHs.

Because the air-monitoring will result in the collection of a large number of samples, it will be necessary for the program to prioritize the samples that will actually be analyzed. The meteorological data and the real-time data collected at the fence line will be evaluated and used to select what is anticipated to be the “worst case” sample for each day of monitoring. The remaining samples may or may not be analyzed depending on the initial results, but if so they will be analyzed within a 14-day maximum holding time.

At the conclusion of each sampling day or event, the sample pumps will be removed from their monitoring locations, the sampling tubes will be removed from the inlet tubing, the individual tubes will be labeled with the monitoring location identification number, date, and total monitoring time, be refrigerated or placed into an approved shipping container. Chain-of-custody forms will be completed and shipped with the samples to the analytical laboratory. When completing the chain-of-custody forms, the sampling technician will identify the specific analytes to be analyzed.

Reporting of sampling events will include meteorological data, and the presence of potential sources of the COI. Weather observations will be taken from the weather station which is to be installed on site. Observations collected on logs will include wind speed and direction, temperature, relative humidity, and precipitation. Analysis of the effects of these meteorological conditions on the sampling results will be included in report discussion, if applicable.

NiSource's Contract Laboratory, Severn Trent Laboratories (STL) of Buffalo, New York, will be used for all sample analysis.

A Field Screening Data Sheet (an example of which is shown in Appendix C) will be used to record all data on sampling times and readings. A map will be marked to identify actual monitoring locations selected in the field.

4.3 Quality Assurance

Quality assurance (QA) and quality control (QC) checks will be performed to evaluate the accuracy and precision of both the monitoring and analytical methods. The QA/QC checks for monitoring events will include the following standard procedures:

batch certification of sample media including absorption efficiency assessment,
duplicate field sample (one per 20 samples),
laboratory control spike (one per 20 samples), and
laboratory duplicate sample (one per sampling event).

The batch certification of sample media is performed by analyzing representative samples of laboratory provided sample media. Control spikes will be analyzed by the laboratory. The control spike is performed by analyzing a known concentration of each COI, which is injected into a clean canister, and then later extracted for subsequent analysis. The control spike measures the efficiency of recovery of the analyte(s) during the media extraction procedure. Canister blanks, control spikes, and laboratory duplicate samples will be generated and conducted by the laboratory; they do not require additional sample collection.

To test the precision of the monitoring and analytical methods, a duplicate co-located sample will be obtained at one monitoring location of air samples. The results of the primary and secondary (duplicate) samples will be compared to determine the variation in the COI concentrations measured. A duplicate sample will be obtained for each day's monitoring.

4.3.1 Verification of COI. Results obtained from the air monitoring program will be reviewed on an on-going basis to determine if the list of COI continues to be valid.

4.3.2 Evaluation of Off-Site Conditions. Dispersion modeling will be used on an on-going basis throughout the program to conduct a screening evaluation of the fence line results with regard to potential impact to off-site receptors. The average constituent concentrations from the prioritized fence line samples will be used to predict the associated level at the location of the nearest off-site receptor over the course of the program.

4.3.3 Validation of Model. It may be determined that it is necessary to validate the dispersion model periodically throughout the remediation program to ensure the conservatism of the screening evaluation. The validation of the factor will be conducted at the following frequencies:

- Conclusion of Week 4 of the program (using the results collected through Week 2);
- Conclusion of Week 6 of the program (using the results collected through Week 4); and
- Monthly thereafter.

The validation process will require an evaluation of the model's ability to account for the effect of changes in wind direction (averaging factor), as well as wind speed and direction (lateral dispersion) during the program. These procedures are discussed in Appendix D.

5.0 REPORTING

A typical reporting of the air sampling results is discussed below.

5.1 Screening Results

The results from the real-time monitoring will be recorded separately for each location to provide a complete documentation of site conditions and provide a basis for prioritizing samples for analysis. An example field screening data sheet for recording screening information is provided in Appendix C. Additionally, the maximum and average values for each location/sampling period will be recorded in tabular form on a computer spreadsheet. This will facilitate preparation of the final report at the end of the program. Also, the results from the screening evaluation (Subsection 3.1), based on the “worst-case” estimate of fence line concentrations, will be summarized on a weekly basis. An example of the reporting form for summarizing the weekly field results is provided as Appendix C.

5.2 Off-Site Results

The documentation of the ongoing evaluation of site conditions (Subsection 4.3.2) and an evaluation of the potential impact of emissions on off-site receptors will be included in the final report for the project. The initial step in the process is to estimate the ambient concentration for constituents at the location of the nearest receptor. The results from the analysis of the constituent-specific samples will be used to calculate an average of the fence line concentrations for each COI at each location. The results from the most significantly impacted location will be modeled to evaluate the potential impact at the location of the closest off-site receptor.

This evaluation will be conducted intermittently throughout the program to validate the findings of the screening evaluation (Subsection 4.3.2). In some instances, it may become obvious that the screening evaluation is providing a conservative estimate of receptor exposure. This may be the case in programs of longer duration (>60 days) where changes in wind direction are likely to

have a more significant effect. In these cases, it may be possible to conduct the analysis solely on the basis of the prioritized samples and to significantly reduce the number of samples for analysis without affecting the quality of the evaluation.

The modeled results will be evaluated using standard assessment techniques redeveloped by the U.S.EPA to evaluate the potential risk to off-site receptors. The risk characterization process incorporates a review of the ambient concentrations of constituents with respect to the results of the exposure and toxicity assessments. Separate analyses are conducted for potentially carcinogenic and non-carcinogenic effects of constituents, and the calculation of potential risk is approached in different ways.

REFERENCES

1. RETEC Group and ENSR International; *Guidance Document Air Monitoring at Former MGP Site*; 2003
2. U.S.EPA; *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources* Revise; October 1992
3. NIOSH; *NIOSH Manual of Analytical Methods*, Methods 0500, 1501 and 5515; Latest Edition

APPENDIX A
CALCULATIONS

Purpose: Determine a concentration of benzene that when measured at the fence line of the that will not be over acceptable ambient air concentrations at the nearest target receptor.

Assumptions:

1. Open area of contaminated soil that is contributing constituent of interest (COIs) to the atmosphere, with an area of 25 meters long by 25 meters wide that has an unit emission rate of 1 mg/m²/s
2. The Project is anticipated to last 6 months.
3. The nearest receptor to the site is approximately 10 meters to the south.
3. A wind resistant barrier will be placed over the fence to a height approximately 1.5 meters above ground.
4. The breathing zone of any receptors is equal to 1.5 meters above ground.
5. The subchronic RfC for benzene it equal to 0.03 ppmv. This represents a lifetime of constant inhalation at this level. See Table 3-2 attached.

Procedure:

Using an atmospheric dispersion screening model (Screen 3), calculate the maximum target concentration, action level, at the fence line that will result in the maximum acceptable ambient air concentration at the nearest receptor.

Calculation:

1. Run Screen 3 with the given assumptions and the following added inputs: Urban, simple terrain, regulatory mixing height, regulatory anemometer height = 10 meters.

OUTPUT

The Screen 3 output is summarized on Table 1. The output for the Screen 3 model run is attached. The Screen 3 output gives the 1-hour maximum concentration versus distances away from the source. For area sources Screen 3 measures receptor distances from the center of the area, in our case a 25 meter square. Here it is assumed that the fence line will be the edge of the source, approximately 10 meters from the center. The fence line is where the air quality will be evaluated during construction and is used as the reference point from here on.

Table 1. Screen 3 Output Summary

Distance from Fence line (m)	1 hour Maximum Concentration (mg/m³)
0	16.7
10	14.3
20	7.9
30	6.2
40	5.0
50	4.0

2. Use averaging factors [Ref 2] to calculate concentrations at the following Averaging periods: 3 hr, 8 hr, 24 hr, 3 mo, 6 mo, and Annual. See Table A attached.
3. Use the relationship of concentration at the fence line (distance = 0) and the predicted receptor concentration to calculate an associated dispersion factor. For example, as indicated in Table A, the average concentration over the expected duration of a project having a 6-month duration at a distance of 30 meters from the site will be approximately 7.4 percent (0.86/11.7) of the 8-hour value (constituent specific sampling period) at the fence line. In this instance the dispersion factor would be 0.074. Knowing the dispersion factor allows the prediction of the concentration at the receptor given the measured concentration at the fence line.

$$\text{Predicted Receptor Concentration} = \text{DF} \times \text{Measured Concentration}$$

Where:

Predicted Receptor Concentration = the averaged, maximum value at the location over the course of the program

Measured Concentration = maximum ambient concentration at the fence line of the site for a defined sampling period (1-hour for field screening, 8-hour for constituent-specific sampling).

DF = dispersion factor developed for the specific sampling period, project duration and receptor distance.

Although the modeling was performed using a unit emission rate, 1 mg/m²/s, the relationship between the assumed emission rate and the predicted ambient concentration is linear. Therefore the dispersion factors will be applicable regardless of the actual emission rate from the site. Dispersion factors relating to the 1-hour fence line concentration and the 8-hour average fence line concentration were calculated and are located in the attached Tables B and C respectively.

4. Calculate the inverse of the dispersion factor 1/DF to obtain a scaling factor for each of the averaging times and receptor distances. The scaling factors relate the predicted concentration at the receptor to a fence line concentration action level. Scaling factors

based on the 1-hour and 8-hour averaging period at the fence line were calculated and are located in attached Tables D and E respectively.

$$\text{Action Level}_{\text{fence line}} = \text{SF} \times \text{AAC}$$

Where:

Action Level_{fence line} = measured concentration that will signify that actions on-site must be taken to reduce ambient concentration

SF = scaling factor for a specific receptor distance and project averaging period

AAC = Acceptable Ambient Concentration of specific constituent, in this case benzene

5. Using the SF for 6 months at 10 meters (and the subchronic RfC the 1-hour action level and the 8-hour Detection limit were calculated.

1-Hour Action Level:

$$\begin{aligned} AL_{1-hr} &= SF \times AAC \\ &= 8.4 \times 0.03 \text{ ppmv} \end{aligned}$$

$$\boxed{AL_{1-hr} = 0.25 \text{ ppmv}}$$

8-Hour Detection Limit:

$$\begin{aligned} DL_{8-hr} &= SF \times AAC \\ &= 5.8 \times 0.03 \text{ ppmv} \end{aligned}$$

$$\boxed{DL_{8-hr} = 0.17 \text{ ppmv}}$$

References:

1. RETEC Group and ENSR International, *Guidance Document Air Monitoring at Former MGP Sites*, 2003
2. EPA, *Screening Procedures for Estimating the Air Quality Impact of Stationary Sources Revised*, October 1992

02/27/07

10:40:08

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

C:\Project Files\Hammond.scr

SIMPLE TERRAIN INPUTS:

SOURCE TYPE	=	AREA
EMISSION RATE (G/(S-M**2))	=	.100000E-02
SOURCE HEIGHT (M)	=	1.5000
LENGTH OF LARGER SIDE (M)	=	25.0000
LENGTH OF SMALLER SIDE (M)	=	25.0000
RECEPTOR HEIGHT (M)	=	1.5000
URBAN/RURAL OPTION	=	URBAN

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

MODEL ESTIMATES DIRECTION TO MAX CONCENTRATION

BUOY. FLUX = .000 M**4/S**3; MOM. FLUX = .000 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN DISCRETE DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)	STAB	U10M (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	MAX DIR (DEG)
10.	.1671E+05	6	1.0	1.0	10000.0	1.50	45.
20.	.1429E+05	6	1.0	1.0	10000.0	1.50	45.
30.	7859.	6	1.0	1.0	10000.0	1.50	45.
40.	6155.	6	1.0	1.0	10000.0	1.50	45.
50.	4953.	6	1.0	1.0	10000.0	1.50	45.
60.	4025.	6	1.0	1.0	10000.0	1.50	44.
70.	3311.	6	1.0	1.0	10000.0	1.50	45.
80.	2758.	6	1.0	1.0	10000.0	1.50	45.
90.	2325.	6	1.0	1.0	10000.0	1.50	45.
100.	1983.	6	1.0	1.0	10000.0	1.50	45.

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
SIMPLE TERRAIN	.1671E+05	10.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

Discrete Distance Vs. Concentration

Terrain Height = 0.00 m.

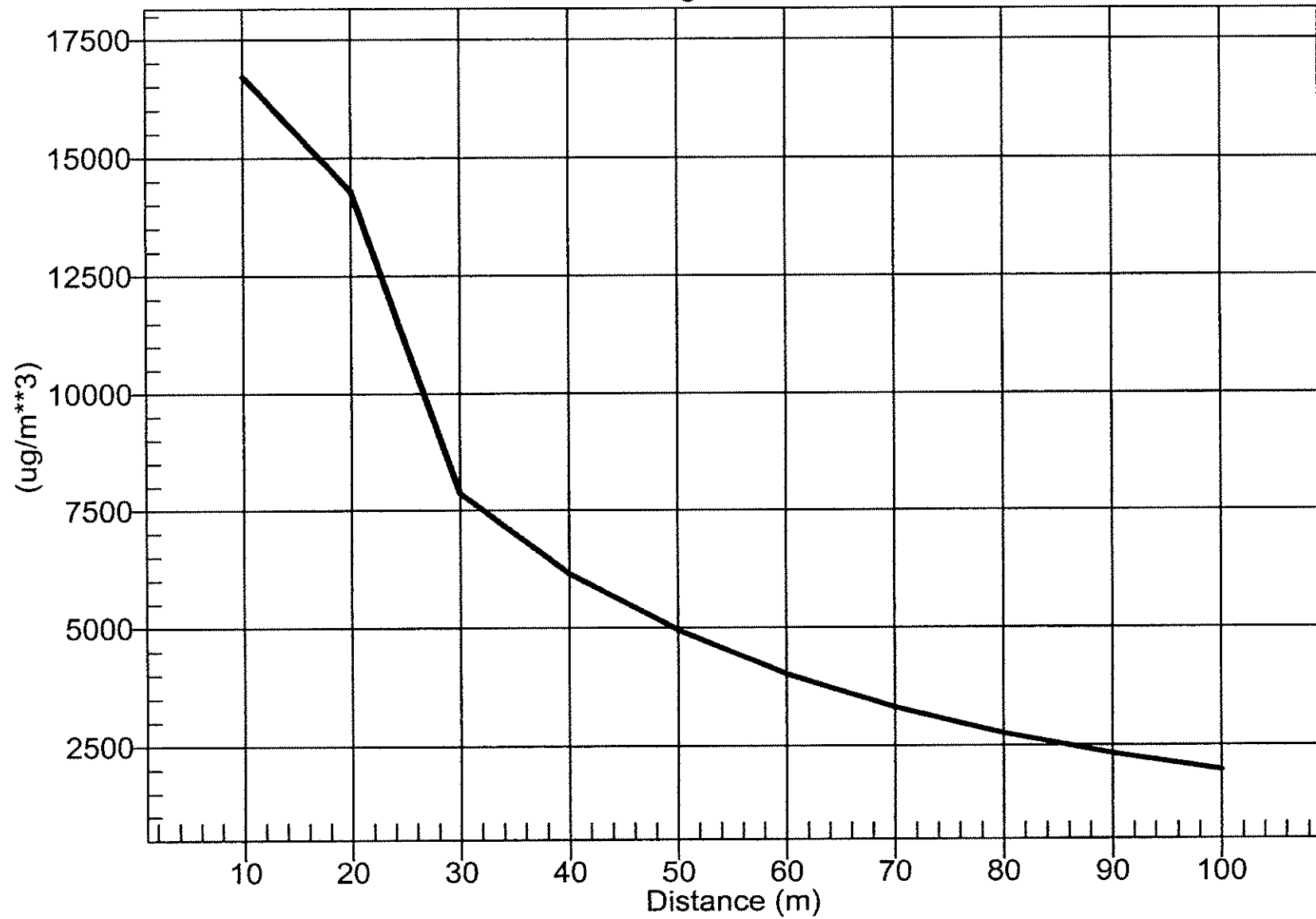


Table A. Modeled Concentration for Additional Averaging Times

Distance from Fenceline (m)	Concentration (mg/m ³) for Additional Averaging Times [Averaging Factor]						
	1hr	3 hr.	8 hr.	24 hr.	3 mo. ¹	6 mo. ¹	Annual
	[1.0]	[0.9]	[0.7]	[0.4]	[0.2]	[0.14]	[0.08]
0	16.7	15.0	11.7	6.7	3.3	2.3	1.3
10	14.3	12.9	10.0	5.7	2.9	2.0	1.1
20	7.9	7.1	5.5	3.2	1.6	1.1	0.63
30	6.2	5.5	4.3	2.5	1.2	0.86	0.49
40	5.0	4.5	3.5	2.0	1.0	0.69	0.40
50	4.0	3.6	2.8	1.6	0.80	0.56	0.32

Notes:

1. Averaging factor interpolated from EPA Guidance "Screening Procedures for Estimating the Air Quality Impact of Stationary Sources", 1992

Table B. General Dispersion Factor for 1 Hour Screening Results

Distance from Fenceline (m)	1hr	3 hr.	8 hr.	24 hr.	3 mo.	6 mo	Annual
0	1.0	0.9	0.7	0.4	0.20	0.14	0.080
10	0.9	0.8	0.6	0.34	0.17	0.12	0.068
20	0.5	0.4	0.33	0.19	0.09	0.066	0.038
30	0.37	0.33	0.26	0.15	0.074	0.052	0.029
40	0.30	0.27	0.21	0.12	0.059	0.041	0.024
50	0.24	0.22	0.17	0.10	0.048	0.034	0.019

Table C. General Dispersion Factor for 8 Hour Screening Results

Distance from Fenceline (m)	8 hr.	24 hr.	3 mo.	6 mo	Annual
0	1.0	0.6	0.3	0.2	0.11
10	0.9	0.5	0.24	0.17	0.10
20	0.5	0.3	0.14	0.095	0.054
30	0.4	0.21	0.11	0.074	0.042
40	0.3	0.17	0.08	0.059	0.034
50	0.24	0.14	0.07	0.048	0.027

Table D. General Scaling Factors for 1 Hour Screening Results at Fenceline

Distance from Fenceline (m)	1hr	3 hr.	8 hr.	24 hr.	3 mo.	6 mo	Annual
0	1.0	1.1	1.4	2.5	5.0	7.1	12.5
10	1.2	1.3	1.7	2.9	5.8	8.4	14.6
20	2.1	2.4	3.0	5.3	10.6	15.1	26.5
30	2.7	3.0	3.9	6.8	13.6	19.4	33.9
40	3.4	3.7	4.8	8.4	16.9	24.1	42.2
50	4.2	4.6	5.9	10.4	20.8	29.7	52.0

Table E. General Scaling Factors for 1 Hour Screening Results at Fenceline

Distance from Fenceline (m)	8 hr.	24 hr.	3 mo.	6 mo	Annual
0	1.0	1.8	3.5	5.0	8.8
10	1.2	2.0	4.1	5.8	10.2
20	2.1	3.7	7.4	10.6	18.5
30	2.7	4.8	9.5	13.6	23.8
40	3.4	5.9	11.8	16.9	29.5
50	4.2	7.3	14.5	20.8	36.4

Table 3-2 Acceptable Ambient Concentration (AAC) for MGP Constituents of Interest

Constituent	Selected Subchronic RFC		Notes
	(mg/m ³)	(ppmv)	
Benzene	0.09	0.03	(a)
Toluene	0.4	0.11	(b)
Ethylbenzene	1.0	0.23	(c)
Xylene	0.3	0.07	(d)
Styrene	3.0	0.70	(e)
Naphthalene	0.01	0.002	(f)
2-Methylnaphthalene	0.01	0.002	(g)
Acenaphthene	2.1	0.33	(h,i)
Acenaphthylene	2.1	0.34	(j)
Anthracene	10.0	1.36	(k,i)
Benzo(a)anthracene	1.0	0.11	(m)
Benzo(a)pyrene	1.0	0.10	(m)
Benzo(b)fluoranthene	1.0	0.10	(m)
Benzo(g,h,i)pyrene	1.0	0.10	(m)
Benzo(k)fluoranthene	1.0	0.10	(m)
Chrysene	1.0	0.11	(m)
Dibenzo(a,h)anthracene	1.0	0.11	(m)
Fluoranthene	1.4	0.17	(n,i)
Fluorene	1.4	0.20	(o,i)
Indeno(1,2,3-c,d)pyrene	1.0	0.09	(m)
Phenanthrene	10.0	1.36	(p)
Pyrene	1.0	0.12	(l,i)

Notes:

IRIS - Integrated Risk Information System, an online computer database of toxicological information (April 2003).
MGP - Manufactured Gas Plant.
RFC - Reference Concentration, Inhalation Route.
RfD - Reference Dose, Oral Route.
UF - Uncertainty Factor.

(a) - IRIS; based on an occupational inhalation study in humans; the chronic RFC is 0.03 mg/m³ and the subchronic to chronic duration UF is 3.
(b) - IRIS; based on the chronic RFC, no adjustment was made for a subchronic exposure as the study examined humans exposed occupationally for approximately 2.5 to 8.9 years, which encompasses the subchronic duration of 0-7 years.
(c) - IRIS; based on inhalation developmental toxicity studies in rats and rabbits. Because exposure during gestation is a subchronic duration, no adjustment is made to extrapolate the chronic RFC to a subchronic duration.
(d) - IRIS; based on a subchronic inhalation study in male rats; the chronic RFC is 0.1 mg/m³ and the subchronic to chronic duration UF is 3.
(e) - IRIS; based on an occupational study in humans; the chronic RFC is 1 mg/m³ and the subchronic to chronic duration UF is 3.
(f) - IRIS; based on a chronic mouse inhalation study; the chronic RFC is 0.003 mg/m³, and the database deficiencies UF is 3.
(g) - Based on structural similarities, the value for naphthalene is used.
(h) - IRIS; based on route-to-route extrapolation from a chronic oral RfD of 0.06 mg/kg-day and a subchronic to chronic duration UF of 10.
(i) - RfD converted to an RFC by assuming a 70 kg adult breathes 20 m³ air per day (conversion factor = 70/20 = 3.5).
(j) - Based on structural similarities, the value for acenaphthene is used.
(k) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.3 mg/kg-day and a subchronic to chronic UF of 10.
(l) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.03 mg/kg-day and a subchronic to chronic UF of 10.
(m) - Based on structural similarities, the value for pyrene is used.
(n) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.04 mg/kg-day and a subchronic to chronic UF of 10.
(o) - IRIS; based on route-to-route extrapolation from chronic oral RfD of 0.04 mg/kg-day and a subchronic to chronic UF of 10.
(p) - Based on structural similarities, the value for anthracene is used.

APPENDIX B

SOPs SCREENING & OCCUPATIONAL METHODS

SOP's SCREENING METHODS

**Standard Operating Procedure for Field Analysis of Benzene in Ambient Air
Using a Portable Gas Chromatograph**

Standard Operating Procedure for Field Analysis of Benzene in Ambient Air Using a Portable Gas Chromatograph

1.0 OVERVIEW

This standard operating procedure (SOP) is intended to provide a step-by-step procedure for using a Portable Gas Chromatograph (GC) for field analysis of benzene in ambient air. The method is intended to provide near real-time results to provide input for health and safety evaluations and decisions related to the need for fugitive emission controls.

2.0 BACKGROUND: PRINCIPLE, SCOPE AND APPLICATION

Gas chromatography can be used to separate individual compounds within a complex matrix, such as ambient air, to facilitate constituent analysis. The sample for analysis is introduced into the GC and carried by a "carrier" gas (typically high purity air or nitrogen) through a small diameter column packed with solid material. The column "packing" is used to selectively retard the passage of the constituents of interest (COI) based upon their individual physical/chemical characteristics. A given column and instrument conditions (column temperature, flow rate, etc.), will elute constituents at reproducible retention times. The retention times for a given set of operating conditions can be determined by the analysis of standard gas mixture containing benzene.

The carrier gas stream, containing the separated constituents, is then passed through a detector cell. Although a variety of detector types can be used, this method specifies a Photo Ionization Detector due to its reliability and ease of operation. The gas stream is exposed to a sealed ultraviolet (UV) light source (detector lamp). Electrodes within the cell sense the current associated with electrons generated from the absorption of UV radiation (ionization) by the constituents in the gas stream. The detector response, registered as a "peak" is used to calculate an associated constituent concentration based on the previous response to a calibration gas.

2.1 Parameters to be Measured

Benzene is identified as the principal COI for this application.

2.2 Detection Limit

The analytical detection limit is in the range of 0.05 parts per million, by volume (ppm). For this particular application, it is anticipated that the working range will extend to approximately 1 ppm.

2.3 Sample Matrix

The sample matrix is ambient air.

3.0 INTERFERENCES AND CORRECTIVE ACTIONS

The sensitivity of the instrument can be affected by background contaminants in the carrier gas stream, or on the column packing material. Many instruments are equipped with a "backflush" capability that purges the slower eluting constituents after each sampling run to eliminate the buildup of contaminants on the column. More significant problems can frequently be addressed by "baking" the column overnight at a temperature that is significantly higher than the run condition. Note: Carrier gas flow must be maintained whenever the chromatographic column is subjected to elevated temperatures. The use of a higher purity carrier gas supply may also improve instrument sensitivity.

In some complex matrices, other constituents may co-elute with benzene, making quantification difficult. It may be possible to change operating conditions (carrier gas flow rate, program a fixed rate of increase in column temperature) to improve separation. The use of alternative columns (length, packing material) can also be investigated if the adjustment of operating conditions is not successful.

9 APPARATUS

4.1 Equipment Set Up

It is recommended that the GC be set up (column selection, temperature programming) for the specific needs of the application by a sales/service representative to optimize constituent separation/sensitivity and minimize run times.

4.2 Calibration, Sampling, and Maintenance Equipment List

Required sampling equipment includes, but is not limited to:

- Field GC with Photo Ionization Detector;
- Tedlar sampling bags;
- High purity carrier gas (typically air or nitrogen); and
- Certified calibration gas (+/- 2%) containing benzene at appropriate concentration(s) for the application.

4.3 Calibration Procedures

It is recommended that the instrument be calibrated at the start of each day of sampling, with calibration checks conducted after every 10 sample runs, and at such times that are appropriate to confirm specific monitoring results. CONSULT THE OPERATIONS MANUAL FOR PROPER CALIBRATION INTERVAL AND PROCEDURES. The following general calibrations steps may be used:

- Charge the column with the sample carrier gas, i.e. UltraZero, to within the pressure limits of the GC. The pressure gauge built into the GC will help determine when the supply is appropriate. Over charging of the column should automatically be prevented through the pressure regulator with built-in release valve.
- Turn the GC on and allow it to warm up.
- Monitor the GC display for operational errors, and review the system parameters (detector status, temperature, etc.) to ensure that the GC has reached its' desired operating conditions.
- Fill a Tedlar bag (dedicated for this purpose) with the calibration gas. Once the GC is ready, introduce a sample of the calibration gas through the instrument's sampling port. Instruments are typically equipped with an internal sampling pump and injection loop (calibrated volume) to ensure that a consistent quantity of sample is introduced into the instrument.
- Monitor/record the instrument response to the benzene peak, noting retention time and any irregularities in the baseline, or shape of the sample peak.
- When the peak has returned to the baseline, terminate the sample run. The instrument will display the retention time/response for the sample peak.
- Repeat the injection/analysis process until two successive responses agree within 10 %.
- The concentration of the calibration gas should closely match the anticipated concentration of gas in the sample, or the action/threshold levels identified in the site-specific monitoring plan. Multiple point calibrations using gas mixtures having varying concentrations of benzene may be appropriate if a broad range of constituent concentrations is anticipated.

Document all runs on the GC's calibration log. If the instrument is serviced as a result of improper function or routine maintenance, document all service performed on the GC in the calibration log.

5.0 SAMPLE COLLECTION

Constituent-specific data is generally required as a result of an elevated concentration of total VOCs at a specific location. The following text outlines the procedures for collecting a sample in response to these events and subsequent analysis.

5.0 SAMPLING PROCEDURES

Samples procedures include, but are not limited to:

- Representative grab samples of ambient air are collected in a Tedlar bag using the outlet port on a PID monitor, or other sampling pump.
- Connect the filled bag to the injection port of the GC and introduce a sample of the gas using the internal pump/sample loop.
- Monitor/record the instrument response to the benzene peak, noting retention time and any irregularities in the baseline, or shape of the sample peak.
- When the benzene peak has returned to the baseline, terminate the sample run. The instrument will display the retention time/response for the sample peak.
- Backflush the columns, if appropriate, to purge other constituents and shorten the time for the instrument to return to initial run conditions.
- Repeat the process until two successive responses agree within 10 %.
- Use the information from the calibration run to relate the averaged instrument response (mV) to the constituent concentration (ppm). Note: some instruments will save the most recent calibration data in memory and convert the results data internally.
- Upon completion of the sample analysis, record the concentrations measured in the field notebook with sample collection data (time, location).
- After the sample has been successfully analyzed, purge the remaining sample from the Tedlar sampling bag in a safe environment, i.e. outdoors.
- “Rinse” the Tedlar bag by filling with clean air, i.e. VOC-free air, 2-3 times prior to reuse.

7.0 LABORATORY PROCEDURES

This section is not applicable to this SOP.

8.0 QUALITY ASSURANCE/QUALITY CONTROL

Follow the monitoring procedures as closely as possible and continue to perform them in a consistent manner. Minimizing variation in monitoring procedures will help to reduce occurrences of errors and inconsistencies. Perform proper maintenance to ensure that the instrument is functioning properly. Calibrate the instrument regularly and document all calibration and maintenance activities on the equipment’s calibration log.

9.0 ROUTINE PREVENTIVE MAINTENANCE

Routine preventative maintenance procedures include, but are not limited to:

- Flushing/baking of the column to remove residual contamination
- Replacement/cleaning the UV lamp
- Replacement of connectors and filters

Note: Maintenance should only be performed by qualified personnel.

10.0 DATA DELIVERABLES

At the end of the workday summarize all results and actions on the site’s daily air monitoring summary log.

(Revision 0, April 2002)

**Standard Operating Procedure for Real-time
Monitoring of Particulate Matter In Ambient Air
Using an Aerosol Monitor**

Standard Operating Procedure for Real-time Monitoring of Particulate Matter In Ambient Air Using an Aerosol Monitor

1.0 OVERVIEW

This standard operating procedure (SOP) is intended to provide a step-by-step procedure for the operation of an aerosol meter to measure the concentration of airborne particulate matter on a real-time basis.

2.0 BACKGROUND: PRINCIPLE, SCOPE AND APPLICATION

Aerosol meters use a high sensitivity photometric monitor whose configuration for sensing scattered light has been optimized for the measurement of the particulate matter. The instrument samples the air passively (i.e. without a pump); air accesses freely the sensing chamber by convection, diffusion, and adventitious air motion.

2.1 Parameters to be Measured

The instrument measures ambient concentrations of airborne dust, smoke, fumes and mists. Depending on the instrument, results can be obtained for total, or respirable (<10 μm) dust fractions.

2.2 Detection Limit and Working Range

Aerosol meters typically have a working range from 0.001 mg/m^3 to 400 mg/m^3

2.2 Sample Matrix

The sample matrix is ambient air.

3.0 INTERFERENCES AND CORRECTIVE ACTIONS

Accumulation of condensable material and dust in the sensor can interfere with accuracy of the measurements recorded.

4.0 APPARATUS

4.1 Equipment

Required sampling equipment includes, but is not limited to:

- A real-time aerosol meter, such as the *personal*/DataRAM;
- Z-bag or Z-pouch with hand held and operated air pump, and inline particulate filter; and
- Field log book, or data sheets.

4.2 Calibration Procedures

Calibration activities are limited to providing a dust free environment to set the "zero" for the instrument. An aerosol meter registers its own optical background during an initial zeroing sequence, stores that level in its memory, and then subtracts that background from all measured concentration values.

It is recommended that the instrument be calibrated at the start and completion of each day of sampling, and at such times that are appropriate to confirm specific monitoring results. CONSULT The OPERATIONS MANUAL FOR PROPER CALIBRATION INTERVAL AND PROCEDURES.

Calibration in a dust free environment can be conducted using the Z-Pouch (standard accessory) with hand pump and in-line particulate filter as follows:

- Wipe the outside surfaces of the aerosol meter .
- In a reasonably clean area, open the zipper of the Z-Pouch and place the aerosol meter inside it. Close the zipper.
- Open the small nipple on the Z-Pouch, and insert the fitting of the hand-pump/in-line filter unit.
- Operate the hand-pump until the Z-Pouch begins to bulge slightly, and proceed with the calibration procedures listed in the instrument manual, pressing the keys of the instrument through the wall of the Z-Pouch.
- After completing the zeroing/calibration procedure, open the Z-Pouch zipper and remove the aerosol meter. Close the zipper and flatten the Z-Pouch while plugging its nipple, in order to prevent dust contamination of the interior of the Z-Pouch.

An example of display readings during start up and calibration of the *personal*/DataRAM is provided below.

KEY	DISPLAY	NOTES
ON/OFF	START ZERO: ENTER GO TO RUN:NEXT	Before starting a zeroing run, place <i>personal</i> /DataRAM inside Z-Pouch, pump air into it and key ENTER while pumping. Alternatively, key NEXT to go to RUN/READY mode. If ENTER is keyed:
ENTER	ZEROING V1.00	Keep pumping slowly while ZEROING is displayed for 1.1 minutes, followed by one of the following screens:
	CALIBRATION: OK	Or
	BACKGROUND MALFUNCTION	Or If CALIBRATION: OK, then go to step 3. If one of the other two screens is displayed, attempt to calibrate the device again. If calibration still fails, discontinue use of the device and have it serviced immediately.
NEXT	START RUN: ENTER READY:NEXT	To start a measurement run, key ENTER. To set up for a run and scroll logging/operating parameters, key NEXT.
ON/OFF	TURN OFF PDR? Y: ENTER N:NEXT	Keying ON/OFF while the <i>personal</i> /DataRAM is operating will elicit this message to prevent accidental shut off. To confirm shut down, key ENTER. To continue operation, key NEXT.

5.0 SAMPLE COLLECTION

The instrument is used to characterize ambient air conditions within the breathing zone at selected monitoring locations. The locations can be part of an established network, or down-wind of a potential emissions source.

Samples should be collected on an hourly basis, or at the frequency defined in the site-specific monitoring plan.

6.0 SAMPLING PROCEDURES

Aerosol meters can have several different operating modes: start up (discussed previously); ready; and run. The operating modes and procedures listed below are for the recommended sampling device (*personalDataRAM*). Consult the operations manual of other devices to determine the appropriate operating modes and procedures

Once the *personalDataRAM* is in the Ready Mode, the user is presented with the following alternatives:

1. Start a run immediately, or after any of the subsequent steps;
2. Review (by scrolling the display) all operating parameters, status and diagnostic data;
3. Activate or deactivate the logging function; activate, select (instantaneous or STEL), or deactivate alarm;
4. Program parameters or output logged data through a computer.

An example of display readings during the Ready Mode is provided below.

KEY	DISPLAY	NOTES
NEXT	LOGGING OFF	This screen indicates the logging status. To enable the logging function, key ENTER. Toggling of the on/off logging status can be done by keying ENTER.
ENTER	LOG INTRVL 600s TAG #: 4	This example assumes that a 10-min log period had been selected previously through the PC and that the next unused tag is #4.
NEXT	ALARM: OFF	This screen indicates the alarm status. Keying ENTER repeatedly toggles through the 3 alarm modes:
ENTER	ALARM: INSTANT LEVEL: 1.50 mg/m ³	This enables the alarm based on the real-time concentration. The level (e.g. 1.50 mg/m ³) must be set on the PC.
ENTER	ALARM: STEL LEVEL: 0.50 mg/m ³	This enables the alarm based on the 15-min STEL value. The level (e.g. 0.50 mg/m ³) must be set on the PC
ENTER	CAL FACTOR: 1.00 DIS AVG TIME 10s	This screen displays the calibration factor and the display averaging time. Both values can be edited via PC.
NEXT	BATTERY LEFT 80% TAGS LEFT: 6	This screen displays the remaining battery charge (in 20% steps), and the remaining number of free tags.
NEXT	CONNECT TO PC	When this screen has been select, the operating parameters can be edited and/or the logged data can be downloaded via the PC. If NEXT is keyed again, the screen returns to RUN/READY:
NEXT	START RUN: ENTER READY: NEXT	The <i>personalDataRAM</i> is now ready to run by completing the steps listed in the following table.

Once the *personalDataRAM* is in the Run Mode, the user is presented with the following alternatives:

1. Instantaneous and time-averaged concentrations (both on the same screen);
2. Elapsed run time, and run start time and date (both on the same screen);
3. Maximum displayed concentration from run start, and time/date at which current maximum occurred;
4. Short term excursion limit (STEL) from run start, and time/date at which current occurred;
5. Remaining battery charge, and (if logging is enabled) remaining free memory.

An example of display readings during the Run Mode is provided below.

KEY	DISPLAY	NOTES
NEXT	LOGGING OFF	Or, if logging was enabled:
	LOG INTRVL 600s TAG#: 4	Logging status will be displayed for 3 seconds.
	CONC*0.047 mg/m ³ TWA 0.039 mg/m ³	After 3 seconds, the concentration screen appears (values shown here are examples). CONC is the real-time and TWA is the time-weighted averaged concentration. The * appears only if logging has been enabled.
EXIT	TERMINATE RUN? Y: ENTER N: NEXT	To terminate the current run and return to Ready Mode, key ENTER. To continue the run, key NEXT.
NEXT	CONC*0.047 mg/m ³ TWA 0.039 mg/m ³	Keying NEXT successively scrolls the display to show various run values (elapsed run time, maximum, STEL, etc.). Keying EXIT from any of those screens returns to the concentration display.
NEXT	ET 06:12:49 ST 08:18:26MAY15	This screen shows the elapsed run time (ET) and the run start time/date (ST).
NEXT	MAX: 0.113 mg/m ³ T 10:08:44MAY 15	This screen shows the maximum concentration of current run and time/date of occurrence.
NEXT	STEL:0.058 mg/m ³ T 09:59:22 MAY 15	This screen shows the 15-min STEL value of the current run and the time/date of occurrence.
NEXT	BATTERY LEFT 80%	Or, if logging was enabled,
NEXT	BATTERY LEFT 80% RUN MEM LEFT 96%	This screen shows the amount of usable charge left in the battery and, if logging has been enabled, the amount of memory left for the run (in currently used tag).
NEXT	CONC*0.047 mg/m ³ TWA 0.039 mg/m ³	The last NEXT command returns the display to the concentration screen.
EXIT	TERMINATE RUN? Y:ENTER N:NEXT	As indicated in step 2, to end current run, key ENTER, to return the Ready Mode:
ENTER	START RUN: ENTER READY: NEXT	This keystroke terminates the current run and returns the unit to the Ready Mode.

- Collect data at the prescribed monitoring locations and document the results in a field log book or data sheet. Since there may be some fluctuation in readings, record the mode value over a 10-15 second period.
- Consult the site-specific monitoring plan to determine if changes in monitoring frequency, or additional protocols are required by the magnitude of the result.

The user can command the termination of the run at any time returning it to the Ready Mode. The *personalDataRAM* can be shut off from within any of the three operating modes. If shut off while in the Run Mode the instrument will save all stored data.

7.0 LABORATORY PROCEDURES

This section does not apply to this SOP.

8.0 QUALITY ASSURANCE/QUALITY CONTROL

Follow the monitoring procedures as closely as possible and continue to perform them in a consistent manner. Minimizing variation in monitoring procedures will help to reduce occurrences of errors and inconsistencies. Perform proper maintenance to ensure that the instrument is functioning properly. Calibrate the instrument regularly and document all calibration and maintenance activities on the equipment's calibration log.

9.0 ROUTINE PREVENTIVE MAINTENANCE

Routine calibration of the aerosol meter will help to ensure the quality of data collected. Most aerosol meters are designed for repaired by their manufacturer. Access to the internal components of the unit by others than authorized personnel can void a service warranty.

Other maintenance should be limited to cleaning of the sensor array through the use of compressed air. Low-pressure compressed air can be used to clear built up particulate matter from the sensor array by releasing short bursts of air through the sensor array. This step does not need to be performed unless the aerosol meter is routinely used and stored in an extremely dusty environment. Proper storage of the aerosol meter can eliminate the need to perform this procedure.

Unless a MALFUNCTION message is displayed, or other operational problems occur, the aerosol meter should be returned to the factory once every two years for routine checkout, test, cleaning and calibration check.

10.0 DATA DELIVERABLES

At the end of the workday summarize all monitoring activities, results, and actions on the site's daily air monitoring summary log(s). Data summaries of concentration results (mg/m^3) should be prepared for each location indicating the average and maximum results.

(Revision 0, April 2002)

**Standard Operating Procedure for Real-Time Monitoring of
Volatile Organic Compounds In Ambient Air
Using a Portable Ionization Detector**

Standard Operating Procedure for Real-Time Monitoring of Volatile Organic Compounds In Ambient Air Using a Portable Ionization Detector

OVERVIEW

This standard operating procedure (SOP) is intended to provide a step-by-step procedure for using a portable ionization detection (PID) device to monitor volatile organic compounds (VOC) in ambient air on a real-time basis.

2.0 BACKGROUND: PRINCIPLE, SCOPE AND APPLICATION

PIDs are compact, hand-held, direct reading devices used to monitor total VOC concentrations in ambient air. A continuous sample of air is drawn into a sensing chamber where it is exposed to a sealed ultraviolet (UV) light source (detector lamp). Electrodes within the chamber sense the current associated with electrons generated from the absorption of UV radiation (ionization) by the constituents in the gas stream. The detector response is measured and displayed as an associated concentration based on the previous response to a known concentration of a calibration gas.

2.1 Parameters to be Measured

PIDs are non-specific, and will respond to all hydrocarbons within the ionization range of the detector lamp measure the total concentration of VOCs. Detector lamps are available in three intensity levels: 9.8 eV, 10.6 eV, or 11.7 eV to provide appropriate sensitivity, and a limited degree of constituent selectivity. Lamps can be selected to best match the ionization potential (IP) of the constituents of interest (COI), and will not respond to compounds having IPs above their operating range.

Detection Limit and Working Range

Typical instruments have operating ranges between 0.2 parts per million (ppm) and 2000 ppm using a typical calibration gas (isobutylene). Sensitivities may vary, and response factors may be required for other compounds.

2.3 Sample Matrix

The sample matrix is ambient air.

3.0 INTERFERENCES AND CORRECTIVE ACTIONS

Excessive moisture (humidity) and dust can interfere with the accuracy of measurements. A moisture filter can be placed on the sampling inlet during periods of high humidity, or precipitation. Particulate filters can also be used to improve the efficiency of the monitor.

4.0 APPARATUS

4.1 Equipment

Required sampling equipment includes, but is not limited to:

- Photo-Ionization Detector (PID) with an appropriate detector lamp. The voltage of the lamp (eV) should be matched to the highest ionization potential associated with the list of COI.
- Battery Charger;
- Moisture Filters;
- Zeroing Filter (for Calibration);
- Calibration gas;
- Tedlar bags; and
- Field log book, or data sheets.

4.2 Calibration Procedures

It is recommended that the instrument be calibrated at the start and completion of each day of sampling, and at such times that are appropriate to confirm specific monitoring results. CONSULT The OPERATIONS MANUAL FOR PROPER CALIBRATION INTERVAL AND PROCEDURES. Typically, isobutylene (a surrogate for benzene) is used as the calibration gas for sites containing aromatic hydrocarbons. Other calibration gases can be selected based upon the site's COI. The following general calibrations steps may be used:

- Turn the PID on and allow the pump to warm up and reach its' normal operational rate.
- Follow the owner's manual procedure for entering the calibration mode.
- Check the "zero" of the instrument by noting the response while sampling hydrocarbon-free air. Hydrocarbon free air can be obtained by: collecting a sample from an area where VOC concentrations are considered to be non-detect; attaching a Zero filter to the sampling inlet to remove VOCs from the ambient air; or using a commercially obtained standard (sampled from a Tedlar bag dedicated for this purpose). Adjust the zero setting, if necessary.
- Fill a Tedlar bag (dedicated for this purpose) with the appropriate calibration gas and connect the bag to the sampling inlet. The instrument is calibrated is the reading agrees within 3% of the known calibration gas concentration . Adjust the span of the instrument, if necessary.
- If repeated attempts to calibrate produce inaccurate results, remove the instrument from use and schedule service immediately.

Document all calibration runs on the PID's calibration log. If the instrument is serviced as a result of improper function or routine maintenance, document all service performed on the calibration log.

5.0 SAMPLE COLLECTION

The instrument is used to characterize ambient air conditions within the breathing zone at selected monitoring locations. The locations can be part of an established network, or down-wind of a potential emissions source. If VOC concentrations are thought to be significantly elevated, based upon investigate reports or previous working conditions, steps should be taken to ensure that the appropriate personal protective equipment (PPE), as established in the site Health and Safety Plan, is available for use.

Samples should be collected on an hourly basis, or at the frequency defined in the site-specific monitoring plan.

6.0 SAMPLING PROCEDURES

Sampling procedures include, but are not limited to:

- Verify that the instrument is in the sampling mode, and not, for example, in the calibration mode.
- Verify that the instrument is properly functioning by waving a known source of VOCs (dry-erase or similar-type marker) in front of the sample inlet. If there is no response, the instrument may not be functioning properly and may need to be recalibrated, or serviced.
- Collect data at the prescribed monitoring locations and document the results using a field log book or data sheet. Since there may be some fluxuation in readings, record the mode value over a 10-15 second period.
- Consult the site-specific monitoring plan to determine if changes in monitoring frequency, or additional protocols are required by the magnitude of the result.

7.0 LABORATORY PROCEDURES

This section is not applicable to this SOP.

8.0 QUALITY ASSURANCE/QUALITY CONTROL

Follow the monitoring procedures as closely as possible and continue to perform them in a consistent manner. Minimizing variation in monitoring procedures will help to reduce occurrences of errors and inconsistencies. Perform proper maintenance to ensure that the instrument is functioning properly. Calibrate the PID regularly and document all calibration and maintenance activities on the equipment's calibration log.

9.0 ROUTINE PREVENTIVE MAINTENANCE

Routine preventative maintenance performed on the PID will be critical in ensuring the validity of the data collected. The major items that maintenance can be performed include, but are not limited to:

- Battery pack
- Sensor module
- PID lamp
- Sampling pump
- Inlet connectors and filter

Note: Maintenance should only be performed by qualified personnel in accordance with the procedures detailed in the operating manual

10.0 DATA DELIVERABLES

At the end of the workday, summarize all monitoring activities, results, and actions on the site's daily air monitoring summary log(s). Data summaries of concentration results (ppm) should be prepared for each location indicating the average and maximum results.

(Revision 0, April 2002)

SOP's OCCUPATIONAL METHODS

**Standard Operating Procedure for Air Sampling for
Particulate In Ambient Air (Modified NIOSH 0500)**

Standard Operating Procedure for Air Sampling for Particulate In Ambient Air (Modified NIOSH 0500)

OVERVIEW

This Standard Operating Procedure (SOP) is intended to provide a step-by-step procedure for collecting ambient dust samples using a constant flow pump and filter media. The method has been modified to provide for longer sampling periods (up to 8 hours) in instances where the total particulate reading can be maintained within the working range of the method. The SOP also identifies a preferred type/arrangement of sampling media. Modifications to the standard method are identified using italics.

2.0 BACKGROUND: PRINCIPLE, SCOPE AND APPLICATION

Ambient air is passed through a hydrophobic filter (contained within a plastic cassette) at known flow rate for a pre-determined period of time. The weight gain of the filter media (mg) is determined gravimetrically, and used with the calculated volume of air sampled (m^3) to determine the concentration of particulate in air (mg/m^3).

2.1 Parameters to be Measured

The method measures total particulate with no speciation. Information related to the chemical composition of the collected particulate can be obtained through subsequent acid digestion of the collected filter media and constituent analyses of the resulting sample extract.

2.2 Detection Limit and Working Range

The analytical detection limit is 0.03 mg per sample, providing for a method detection limit of approximately $0.1 mg/m^3$. The estimated working range of the method is 0.1 to 2 mg total particulate per sample.

2.3 Sample Matrix

The sample matrix is ambient air.

3.0 INTERFERENCES AND CORRECTIVE ACTIONS

Filter cassette assemblies should be handled using new, disposable, powder-free gloves (nitrile, latex, etc.) to minimize the potential for contamination. Filter media should only be handled using forceps.

If sampling is conducted in damp weather, some effort should be made to avoid introduction of water into the sample media, since this will interfere with air flow, and potentially damage the sampling pump. Precautionary measures should be made to shield the sampling inlet from precipitation.

4.0 APPARATUS

4.1 Sampling Equipment

Required sampling equipment includes, but is not limited to:

- Sampling pump, capable of operating at a constant flow rate in the range of 1 liter per minute (lpm) over a period of 8 to 10 hours;
- *SKC Part#: 225-3-02. These pre-assembled, 3-piece sample cartridges consist of a 37 mm plastic cassette containing 0.8- μ m matched weight methyl cellulose filters (Matched weight filters consist of the primary filter, which collects the particulate sample, and a tare filter of equal weight); and a cellulose support pad;*
- Flexible tubing;

- Protective covers for the cassette/pump assembly for sampling during wet weather; and
- Field log book, or data sheets

2 Calibration Procedures

It is recommended that the flow rate of the sampling pump be calibrated daily prior to, and at the completion of each sampling run. However, less frequent calibration may be acceptable for specific types/models of pumps. CONSULT THE SAMPLING PUMP OPERATIONS MANUAL FOR PROPER CALIBRATION INTERVAL AND PROCEDURES. General calibration procedures include the following steps:

- Set the nominal flow rate for the method (1 lpm) on the pump;
- Allow the sampling pumps to warm up and reach the desired flow rate for a period of one minute prior to calibrating. Calibrations should be performed with representative media/tubing in-line to reproduce the sampling conditions
- Once the pumps have warmed up, perform replicate measurements of the flow rate using a digital flow meter (minimum of 3 times, or until the measured rates agree within 10%).
- Average the flow rates to determine the actual flow rate being drawn by the pump, and record the flow rates on a calibration sheet. Written records of pump calibration data must be maintained in the project file.

In the event that the post-sampling measurements differ from the initial calibrations by more than 10 %, the lower of the measure flow rates should be used in determining the total sample volume, as this will result in a more conservative concentration result. Remove the pump from use and have it serviced.

5.0 SAMPLE COLLECTION

Particulate samples are collected within the breathing zone at selected monitoring locations. The locations can be part of an established network, or down-wind of a potential emissions source. Although sampling locations may be moved from day to day, they should remain fixed for a given sampling period.

Samples are typically collected during an 8 to 10 hour period that is consistent with maximum potential dust emissions, or at the frequency defined in the site-specific monitoring plan.

6.0 SAMPLING PROCEDURES

6.1 Sample Set-Up Procedures

Inspect the filter cassette to ensure that it is assembled tightly/properly, with the primary filter exposed on the inlet side of the cassette. **Note: the sample inlet is capped by the blue plug.** Remove the red plug from the outlet side of the cassette), and use a length of flexible tubing to connect the open fitting to the inlet of the sampling pump.

6.2 Sample Collection

- 1) Determine sampling location and set up the cassette/pump assembly. If necessitated by inclement weather, place protective covers on the sample inlet to prevent the collection of water.
- 2) Remove the plug from inlet (blue plug), start the sampling pump, and record the following information on the Sampling Log/Data Sheet:
 - Location;
 - Pump ID/Sample Identification; and
 - Sampling Start Time.
- 3) Verify that the sampling pump is operating at a flow rate of 1 lpm. Check the sampling pumps for proper function at least four times per sampling period. If a pump has malfunctioned, note the time at which the

pump ceased functioning and collect and label the sample. This sample should not be prioritized for analysis. It should be sent to the lab to be held in case it is determined that analysis is necessary.

- 4) Collect samples and sampling devices at the end of the sampling period, typically 8 to 10 hours, and record the following information:
 - Sample End Time;
 - Total Sample Time;
 - Total Sample Volume;
 - Weather Conditions; and
 - Any Sampling Malfunctions.

(Note: The sampling period and/or flow rate should be modified if site conditions/sample results indicate that the total particulate loading is likely to be outside of the working range of 0.1 to 2 mg per sample.)
- 5) Disconnect the cassette from the sampling pump and securely cap the ends with the proper color-coded plugs (blue=inlet, red=outlet). Secure the plugs using a clear packing tape.
- 6) Label all cassettes with corresponding method, sample location and identification information. Recommended labeling procedures suggest that sample identifications should be labeled by date and location of sample collection in the following order: YYMMDD-Location- Method. An example of a sample collected at a Northern perimeter location on January 5, 2002 would be: 020105-N-Part. An example of a duplicate sample collected at an Eastern perimeter location on November 16, 2002 would be: 021116-E-Part-D.

6.3 Sample Handling

No additional handling is anticipated.

6.4 Sample Preservation and Shipment

No preservation of the sealed cassettes is required.

To prepare and ship the samples:

- 1) Package the sample cassettes for shipping by securing sample identification labels and color-coded plugs with clear packing tape.
- 2) Divide samples to distinguish between those prioritized for analysis, and those to be held, and place in separate, sealed plastic bags ("zip lock"). Wrap each bag with bubble-warp. Label each bag to identify its' contents as either "To Be Analyzed" or "Hold".
- 3) Ice is not necessary for shipment.
- 4) Place plastic bags with samples and properly completed Chain of Custody in a shipping container and fill void area with packing materials. Chain of Custody forms should include sample identification numbers, sampling media, volume of air sampled, analysis required, and relevant contact information. Place the Chain of Custody forms in a sealed plastic bag to protect against water damage (if transported with other air samples requiring refrigeration).
- 5) Notify the receiving laboratory about how the samples are assembled to properly identify the sample and tare filters.

7.0 LABORATORY PROCEDURES

Upon receipt of the samples, the laboratory will note sample receipt conditions on the Chain of Custody forms and store prior to analysis. Separate samples (as indicated on the Chain of Custody) into those to be analyzed and those to be held if additional analysis is requested. The quantity of particulate matter present on each filter will be determined by conducting the following procedures:

- 1) Wipe the dust from the outside surface of the filter cassette with a moist paper towel to minimize contamination.
- 2) Remove the top and bottom plugs from the filter cassette. Equilibrate for at least 2 hours in the balance room.

- 3) Remove the cassette band, pry open the cassette, and remove the filters gently to avoid loss of dust. Note: If the filter adheres to the underside of the cassette top, very gently lift away by using the dull side of a scalpel blade. This must be done carefully or the filter will tear.
- 4) Zero the microbalance before weighing. Maintain and calibrate the balance with National Institute of Standards and Technology Class S-1.1 or ASTM Class 1 weights.
- 5) Weigh each filter, including tare weight filters and field blanks. The tare weight filter is the second filter pad that rests between the primary sample filter and the cellulose support pad. The measured tare weight filter will be subtracted from the primary sample filter to determine the overall weight of the sample collected.
- 6) Record anything remarkable about a filter (i.e. overload, leakage, wet, torn, etc.).
- 7) Use the sample volume listed on the Chain of Custody and the measured sample weight to calculate the particulate concentration (mg/m^3). Retain samples for a period of two weeks in the event that additional analysis is requested.

8.0 QUALITY ASSURANCE/QUALITY CONTROL MEASURES (QA/QC)

The following measures must be taken during sampling to assure data quality:

- 1) As described in Section 4.2, each personal sampling pump must be calibrated to the desired flow rate regularly. Calibration intervals are dependent upon the instructions listed in the owner's operation manual.
- 2) When handling samples, all measures should be taken to prevent contamination. These measures can include, cleaning of the outside of the filter cassette prior to shipment and the use of forceps and disposable gloves if it becomes necessary to handle the sample/tare filters.
- 3) Field blanks will be collected in accordance with the requirements of the site-specific monitoring plan. Field blanks should be collected by exposing sampling media to ambient conditions, however, air is not drawn across the sample during the course of a sampling period. Exposure information should be noted on the Sampling Log Sheet for the day that the Field Blank was collected.
- 4) Field duplicates will be collected in accordance with the requirements of the site-specific monitoring plan. Duplicates should be sampled by following the same procedures for sample collection. When logging and labeling the sample, it should be identified as a duplicate, so that it will not be confused with the regular site samples, and its resultant data can be compared to its corresponding site-sample.
- 5) Collect replicate samples at the frequency specified in the site-specific monitoring plan.

9.0 ROUTINE PREVENTIVE MAINTENANCE

Power packs on personal sampling pumps must be recharged regularly. Consult the owner's manual for the brand of sampling pump used for specific information on recharging. Also, replace pump filters, according to the manufacturer's instructions, and calibrate the pumps after filter replacement. Clogged filters can reduce pump performance and place unnecessary strain on the pump, which could lead to malfunctions in the future. Pumps should also be serviced and/or cleaned regularly by an authorized service agent as a means of preventative maintenance. Any equipment that may be used to sample, or come in contact with sampling materials, should be regularly decontaminated to prevent chemical build-up and cross contamination.

10.0 DATA DELIVERABLES

The following information must be included in the report from the laboratory:

- Date, specific location and corresponding sampling time for each sample collected.
- Result of analysis (mass per unit volume) for each sample taken.
- Sampling quality assurance data: field blank results and duplicate results expressed as relative percent difference of each.
- Chain of Custody with sample receipt and log-in information.

(Revision 0, April 2002)

**Standard Operating Procedure for Sampling
Aromatic Hydrocarbons
In Ambient Air
(Modified NIOSH 1501)**

Standard Operating Procedure for Sampling Hydrocarbons in Ambient Air (Modified NIOSH 1501)

1 OVERVIEW

This Standard Operating Procedure (SOP) is intended to provide a step-by-step procedure for collecting Aromatic Hydrocarbon samples using a constant flow sampling pump and charcoal sorbent. This SOP incorporates several modifications to the standard NIOSH Method to adapt the procedures for ambient air sampling. They include: an increase in flow rate and sampling time to improve sensitivity; as well as an increase in the quantity of sorbent media to accommodate the larger volume of sample. These modifications are identified by the use of italics in the following text.

2.0 BACKGROUND: PRINCIPLE, SCOPE AND APPLICATION

Ambient air is passed through a sorbent tube containing activated carbon at known flow rate for a pre-determined period of time. The resulting sample is sent to the laboratory for solvent extraction and constituent-specific analysis for selected volatile organic compounds (VOCs). The mass of each constituent (mg) is used with the calculated volume of air sampled (m^3) to determine the concentration of the constituent in air (mg/m^3).

2.1 Parameters to be Measured

The list of MGP constituents that can be routinely measured using this technique includes: benzene, toluene, ethylbenzene, xylenes and styrene. Naphthalene can also be quantified, however additional Quality Assurance steps may be required to evaluate recovery efficiencies from the sorbent. Other volatile organic compounds (VOCs) can be measured with the additional analysis of the sample extract by GC/MS (Gas Chromatography/ Mass Spectral) techniques.

2.2 Detection Limit

The estimated detection limit is 0.002 mg per sample, providing for a method detection limit of $0.004 mg/m^3$.

2.3 Sample Matrix

The sample matrix is ambient air.

3.0 INTERFERENCES AND CORRECTIVE ACTIONS

If sampling is conducted in damp weather, some effort should be made to avoid introduction of water into the sample media, since this will interfere with air flow, or damage the sampling pump. Precautionary measures should be made to shield the sample inlet from precipitation.

Collected samples should be stored separately from other impacted media samples (soil, groundwater) to minimize the potential for cross contamination.

4 APPARATUS

4.1 Sampling Equipment

Required sampling equipment includes, but is not limited to:

- Sampling pump, capable of operating at a constant flow rate of 1 liter per minute (lpm) over a period of 8 to 10 hours;
- SKC Part# 226-09 , activated coconut charcoal (front = 400 mg; back = 200 mg) .The quantity of sorbent has been increased proportionally from the standard method to accommodate higher flow rates and larger sample volumes while maintaining the same face velocity;
- Flexible tubing;
- Protective covers for the cassette/pump assembly for sampling during wet weather; and
- Field log book, or data sheets.

4.2 Calibration Procedures

It is recommended that the flow rate of the sampling pump be calibrated daily prior to, and at the completion of each sampling run. However, less frequent calibration may be acceptable for specific types/models of pumps. CONSULT THE SAMPLING PUMP OPERATIONS MANUAL FOR PROPER CALIBRATION INTERVAL AND PROCEDURES. General calibration procedures include the following steps:

- Set the nominal flow rate for the method (1 lpm) on the pump;
- Allow the sampling pumps to warm up and reach the desired flow rate for a period of one minute prior to calibrating. Calibrations should be performed with representative media/tubing in-line to reproduce the sampling conditions
- Once the pumps have warmed up, perform replicate measurements of the flow rate using a digital flow meter (minimum of 3 times, or until the measured rates agree within 10%).
- Average the flow rates to determine the nominal sampling rate, and record the value on a calibration sheet. Written records of pump calibration data must be maintained in the project file.

In the event that the post-sampling measurements differ from the initial calibrations by more than 10 %, the lower of the measure flow rates should be used in determining the total sample volume, as this will result in a more conservative concentration result. Remove the pump from use and have it serviced.

5.0 SAMPLE COLLECTION

Samples are collected within the breathing zone, or top of perimeter fencing at selected monitoring location. The locations can be part of an established network, or down-wind of a potential emissions source. Although sampling locations may be moved from day to day, they should remain fixed for a given sampling period.

Samples are typically collected during an 8 to 10 hour period that is consistent with maximum potential emissions, or at the frequency defined in the site-specific monitoring plan.

6.0 SAMPLING PROCEDURES

6.1 Sample Set-up Procedures

Clip the ends of the glass sorbent tubes using a pair of needle-nosed pliers, to expose the sampling media. Use proper PPE (leather gloves and eye protection) when handling the tubes or connecting to sample tubing.

The influent of the sampling tube contains the glass wool pre-filter and larger quantity of sorbent. Cover the tube inlet with the plastic caps provided by the manufacturer, and connect the effluent end to the sampling pump with a small piece of connective tubing.

6.2 Sample Collection

- 1) Determine sampling location and set up the sorbent tube/pump assembly. If necessitated by inclement weather, place protective covers on the sampling inlet to prevent sample exposure to water.
- 2) Remove the cap from the inlet, start the sampling pump, and record the following information on the Sampling Log/Data Sheet:
 - Location;
 - Pump ID/Sample Identification; and
 - Sampling Start Time.
- 3) Verify that the sampling pump is operating at a flow rate of 1lpm.
- 4) Check the sampling pumps for proper function at least four times per sampling period. If a pump has malfunctioned, note the time at which the pump ceased functioning and collect and label the sample. This sample should not be prioritized for analysis. It should be sent to the lab to be held in case it is determined that analysis is necessary.
- 5) Collect samples and sampling devices at the end of the sampling period (nominal 8 to 10 hours). Record the following information:
 - Sample End Time;
 - Total Sample Time;
 - Total Sample Volume;
 - Weather Conditions; and
 - Any Sampling Malfunctions.
- 6) Disconnect the sorbent tube from the sampling pump and securely cap the ends with the plastic caps provided by the manufacturer.
- 7) Label all sorbent tubes with the corresponding sampling location and identification information. Recommended labeling procedures suggest that sample identifications should be labeled by date, location and method in the following order: YYMMDD-Location-VOC. An example of a duplicate sample collected at an Eastern perimeter location on November 16, 2002 would be: 021116-E-VOC-D.

6.3 Sample Handling

No additional handling is anticipated.

6.4 Sample Preservation and Shipment

Refrigerate samples, 35-42 °F (2-6 °C), pending shipment

To prepare and ship the samples:

- 1) Package the sorbent tubes for shipping by individually wrapping them in bubble-wrap or a similar impact packing/protection material.
- 2) Divide samples to distinguish between those prioritized for analysis, and those to be held, and place in separate plastic, sealing bags. Wrap each bag with additional bubble-wrap. Label each bag to identify its contents as either "To Be Analyzed" or "Hold".
- 3) Place plastic bags with samples and properly completed Chain of Custody in a shipping container and fill void area with packing materials. Chain of Custody forms should include sample identification numbers, sampling media, volume of air sampled, analysis required, and relevant contact information. Place Chain of Custody forms in a sealed plastic bag to protect against water damage.
- 4) **Ice is required for shipment.** Double bag ice, or substitute ice-packs, to minimize water leakage and condensation. Excess amounts of water/condensation could contaminate, or destroy, samples that inadvertently become saturated.

7.0 LABORATORY PROCEDURES

Upon receipt of the samples, the laboratory will note sample receipt conditions on the Chain of Custody forms and refrigerate the samples prior to extraction. Samples that are identified as "To Be Analyzed" are extracted as detailed below; those marked "Hold" are placed in storage for future analysis, if requested.

7.1 Sorbent Tube Desorption and Analysis

The tubes are scored/broken, and the contents (front sorbent section, and back sorbent section) are recovered into a vial. The contents are extracted with carbon disulfide prior to analysis. Note: in 10% of the samples, the front and back sorbent sections of the tube are extracted and analyzed separately to evaluate the potential for constituent breakthrough.

The sample extracts are analyzed for selected aromatic hydrocarbons using GC/FID (Gas Chromatography/Flame Ionization Detection). For specifics of GC system configuration and other recommendations, consult NIOSH Method 1501. *Alternatively, analysis for the constituents of interest, and additional constituents can be accomplished using GC/MS techniques.*

Once the samples have been extracted and analyzed, and constituent quantities have been determined (mg), the sample volume (m^3) provided on the Chain of Custody is used to calculate the constituent concentration (mg/m^3).

8.0 QUALITY ASSURANCE/QUALITY CONTROL MEASURES (QA/QC)

The following measures must be taken during sampling to assure data quality:

- 1) As described in Section 4.2, each personal sampling pump must be (regularly) calibrated to the desired flow. Calibration intervals are dependent upon the instructions listed in the owner's operation manual.
- 2) When handling samples, all measures should be taken to prevent contamination. These measures can include, but are not limited to, the use of disposable gloves, and proper cleaning and decontamination of sampling equipment.
- 3) Field blanks will be collected in accordance with the requirements of the site-specific air monitoring plan. Field blanks should be collected by exposing sampling media to ambient conditions, however, air is not drawn across the sample during the course of a sampling period. Exposure information should be noted on the Sampling Log Sheet for the day that the Field Blank was collected.
- 4) Field duplicates will be collected in accordance with the requirements of the site-specific air monitoring plan.

9.0 ROUTINE PREVENTIVE MAINTENANCE

Replace pump filters, according to the manufacturer's instructions, and calibrate the pumps after filter replacement. Clogged filters can reduce pump performance and place unnecessary strain on the pump, which could lead to malfunctions in the future. Pumps should also be serviced and/or cleaned regularly by an authorized service agent as a means of preventative maintenance. Any equipment that may be used to sample, or come in contact with sampling materials, should be regularly decontaminated to prevent chemical build-up and cross contamination.

10.0 DATA DELIVERABLES

The following information must be included in the report:

- Date, specific location and corresponding sampling time for each sample collected.
-

- Result of analysis (measurement of peak areas) for each analyte in each sample taken from GC expressed as a concentration (mg/m^3).
- Sampling quality assurance data: field blank results and duplicate results expressed as relative percent difference of each.
- Chain of Custody with sample receipt and log-in information.

(Revision 1, June 2002)

**Standard Operating Procedure for Sampling
Polynuclear Aromatic Hydrocarbons in Air
by Gas Chromatography
(NIOSH 5515)**

Standard Operating Procedure for Sampling Polynuclear Aromatic Hydrocarbons in Air by Gas Chromatography (NIOSH 5515)

1.0 OVERVIEW

This Standard Operating Procedure (SOP) is intended to provide a step-by-step procedure for collecting Polynuclear Aromatic Hydrocarbon (PAH) samples using a constant-flow and sorbent media. The SOP identifies a preferred type/arrangements of sampling media that are identified using italics in the following text.

2.0 BACKGROUND: PRINCIPLE, SCOPE AND APPLICATION

Ambient air is passed through a sorbent tube containing XAD-2 at known flow rate for a pre-determined period of time. The resulting sample is sent to the laboratory for solvent extraction and constituent-specific analysis for selected PAH compounds. The mass of each constituent (mg) is used with the calculated volume of air sampled (m^3) to determine the concentration of constituents in air (mg/m^3).

2.1 Parameters to be Measured

PAHs to be Measured		
Accnaphthene	Benzo(ghi)perylene	Indeno(1,2,3-cd)pyrene
Acenaphthylene	Benzo(a)pyrene	Naphthalene
Anthracene	Chrysene	Phenanthrene
Benz(a)anthracene	Dibenz(a,h)anthracene	Pyrene
Benzo(b)fluoranthene	Fluoranthene	
Benzo(k)fluoranthene	Fluorene	

Other PAHs can be measured with the additional analysis of the sample extract by GC/MS (Gas Chromatography/Mass Spectral) techniques.

2.2 Detection Limit

The analytical detection limit is 0.001 mg per sample, providing for a method detection limit of $0.001 mg/m^3$ per constituent.

2.3 Sample Matrix

The sample matrix is ambient air.

3.0 INTERFERENCES AND CORRECTIVE ACTIONS

Since UV light may cause sample degradation, the sorbent tubes should be wrapped using aluminum foil.

If sampling is conducted in damp weather, some effort should be made to avoid introduction of water into the sample media, since this will interfere with air flow, or damage the sampling pump. Precautionary measures should be made to shield the sample inlet from precipitation.

Collected samples should be stored separately from other impacted media samples (soil, groundwater) to minimize the potential for cross contamination.

4.0 APPARATUS

Sampling Equipment

Required sampling equipment includes, but is not limited to:

- Sampling pump, capable of operating at a constant flow rate of 2 liters per minute (lpm) over a period of 8 to 10 hours;
- *The preferred sampling media (SKC Part#: 226-30-04) combines a pre-filter and sorbent media in a single tube. Pressure drop at 2 L/min airflow 1.6 to 2 kPa (15 to 20 cm H₂O);*
- Flexible tubing;
- Aluminum foil;
- Protective covers for the cassette/pump assembly for sampling during wet weather; and
- Field log book, or data sheets

4.2 Calibration Procedures

It is recommended that the flow rate of the sampling pump be calibrated daily prior to, and at the completion of each sampling run. However, less frequent calibration may be acceptable for specific types/models of pumps. CONSULT THE SAMPLING PUMP OPERATIONS MANUAL FOR PROPER CALIBRATION INTERVAL AND PROCEDURES. General calibration procedures include the following steps:

- Set the nominal flow rate for the method (2 lpm) on the pump;
- Allow the sampling pumps to warm up and reach the desired flow rate for a period of one minute prior to calibrating. Calibrations should be performed with representative media/tubing in-line to reproduce the sampling conditions
- Once the pumps have warmed up, perform replicate measurements of the flow rate using a digital flow meter (minimum of 3 times, or until the measured rates agree within 10%).
- Average the flow rates to determine the nominal sampling rate, and record the value on a calibration sheet. Written records of pump calibration data must be maintained in the project file.

In the event that the post-sampling measurements differ from the initial calibrations by more than 10 %, the lower of the measure flow rates should be used in determining the total sample volume, as this will result in a more conservative concentration result. Remove the pump from use and have it serviced.

5.0 SAMPLE COLLECTION

Samples are collected within the breathing zone or top of fencing at selected monitoring locations. The locations can be part of an established network, or down-wind of a potential emissions source. Although sampling locations may be moved from day to day, they should remain fixed for a given sampling period.

Samples are typically collected during an 8 to 10 hour period that is consistent with maximum potential emissions, or at the frequency defined in the site-specific monitoring plan.

6.0 SAMPLING PROCEDURES

6.1 Sample Set-up Procedures

Clip the ends of the glass sorbent tubes using a pair of needle-nosed pliers, to expose the sampling media. Use proper PPE (leather gloves and eye protection) when handling the tubes or connecting to tubing.

The influent of the sampling tube contains the glass wool pre-filter and larger quantity of sorbent. Cover the tube inlet with the plastic caps provided by the manufacturer, and connect the effluent end to the sampling pump with a small piece of connective tubing. Wrap the tube in aluminum foil to inhibit sample degradation.

6.2 Sample Collection

- 1) Determine sampling location and set up the sorbent tube/pump assembly. If necessitated by inclement weather, place protective covers on the sampling inlet to prevent sample exposure to water.
- 2) Remove the cap from the inlet, start the sampling pump, and record the following information on the Sampling Log/Data Sheet:
 - Location;
 - Pump ID/Sample Identification; and
 - Sampling Start Time.
- 3) Verify that the sampling pump is operating at a flow rate of 2 L/min.
- 4) Check the sampling pumps for proper function at least four times per sampling period. If a pump has malfunctioned, note the time at which the pump ceased functioning and collect and label the sample. This sample should not be prioritized for analysis. It should be sent to the lab to be held in case it is determined that analysis is necessary.
- 5) Collect samples and sampling devices at the end of the sampling period (nominal 8 to 10 hours). Record the following information:
 - Sample End Time;
 - Total Sample Time;
 - Total Sample Volume;
 - Weather Conditions; and
 - Any Sampling Malfunctions.
- 6) Disconnect the sorbent tube from the sampling pump and securely cap the ends with the plastic caps provided by the manufacturer.
- 7) Remove the aluminum foil and label all sorbent tubes with the corresponding sampling location and identification information. Recommended labeling procedures suggest that sample identifications should be labeled by date, location of sample collection, and method in the following order: YYMMDD-Location-PAH. An example of a duplicate sample collected at an Eastern perimeter location on November 16, 2002 would be: 021116-E-PAH-D.

6.3 Sample Handling

Re-wrap the sample in aluminum foil to prevent sample degradation.

6.4 Sample Preservation and Shipment

Refrigerate samples, 35-42 °F (2-6 °C), pending shipment

To prepare and ship the samples:

- 1) Package the sorbent tubes for shipping by individually wrapping them in bubble-wrap or a similar impact packing/protection material.
- 2) Divide samples to distinguish between those prioritized for analysis, and those to be held, and place in separate plastic, sealing bags. Wrap each bag with additional bubble-wrap. Label each bag to identify its contents as either "To Be Analyzed" or "Hold".
- 3) Place plastic bags with samples and properly completed Chain of Custody in a shipping container and fill void area with packing materials. Chain of Custody forms should include sample identification numbers, sampling media, volume of air sampled, analysis required, and relevant contact information. As well, place Chain of Custody forms in a sealed plastic bag to protect against water damage.

- 4) **Ice is required for shipment.** Double bag ice, or substitute ice-packs, to minimize water leakage and condensation. Excess amounts of water/condensation could contaminate, or destroy, samples that inadvertently become saturated.

7.0 LABORATORY PROCEDURES

Upon receipt of the samples, the laboratory will note sample receipt conditions on the Chain of Custody forms and refrigerate the samples prior to extraction. Samples that are identified as "To Be Analyzed" are extracted as detailed below; those marked "Hold" are placed in storage for future analysis, if requested.

7.1 Sorbent Tube Desorption and Analysis

The tubes are scored/broken, and the contents (pre-filter, front sorbent section, and back sorbent section) recovered into a vial. The contents are extracted with toluene for a period of thirty minutes, with occasional swirling, prior to filtering and analysis. Note: in 10% of the samples, the front and back sorbent sections of the tube are extracted and analyzed separately to evaluate the potential for constituent breakthrough.

The sample extracts are analyzed for selected PAHs using GC/FID (Gas Chromatography/Flame Ionization Detection). For specifics of GC system configuration and other recommendations, consult NIOSH Method 5515. *Alternatively, analysis for the constituents of interest, and additional constituents can be accomplished using GC/MS techniques.*

Once the samples have been extracted and analyzed, and constituent quantities have been determined (mg), the sample volume (m^3) provided on the Chain of Custody is used to calculate the constituent concentration (mg/m^3).

8.0 QUALITY ASSURANCE/QUALITY CONTROL MEASURES (QA/QC)

The following measures must be taken during sampling to assure data quality:

- 1) As described in Section 4.2, each personal sampling pump must be (regularly) calibrated to the desired flow. Calibration intervals are dependent upon the instructions listed in the owner's operation manual.
- 2) When handling samples, all measures should be taken to prevent contamination. These measures can include, but are not limited to, the use of disposable gloves, and proper cleaning and decontamination of sampling equipment.
- 3) Field blanks will be collected in accordance with the requirements of the site-specific monitoring plan. Field blanks should be collected by exposing sampling media to ambient conditions, however, air is not drawn across the sample during the course of a sampling period. Exposure information should be noted on the Sampling Log Sheet for the day that the Field Blank was collected.
- 4) Field duplicates will be collected in accordance with the requirements of the site-specific monitoring plan.

9.0 ROUTINE PREVENTIVE MAINTENANCE

Replace pump filters, according to the manufacturer's instructions, and calibrate the pumps after filter replacement. Clogged filters can reduce pump performance and place unnecessary strain on the pump, which could lead to malfunctions in the future. Pumps should also be serviced and/or cleaned regularly by an authorized service agent as a means of preventative maintenance. Any equipment that may be used to sample, or come in contact with sampling materials, should be regularly decontaminated to prevent chemical build-up and cross contamination.

10.0 DATA DELIVERABLES

The following information must be included in the report:

- Date, specific location and corresponding sampling time for each sample collected.

- Result of analysis (measurement of peak areas) for each analyte in each sample taken from GC expressed as a concentration (mg/m^3).
- Sampling quality assurance data: field blank results and duplicate results expressed as relative percent difference of each.
- Chain of Custody with sample receipt and log-in information.

(Revision 1, June 2002)

APPENDIX C
FIELD SCREENING FORMS

FIELD INSTRUMENTATION CALIBRATION RECORD

PROJECT UPLAND REMEDIAL ACTION

DATE

CREW ID OR TASK ID

JOB NUMBER

SAMPLER SIGNATURE _____ CHECKED BY _____

EQUIPMENT CALIBRATION

AM CALIBRATION

PM CALIBRATION CHECK

TIME: _____

TIME: _____

PHOTOIONIZATION
METER TYPE _____
MODEL NO. _____
UNIT ID NO. _____

Background std. value meter value
ppmv _____
Span Gas _____
ppmv _____

std. value meter value

ACCEPTANCE
CRITERIA
w/in 5 ppmv of Zero
+/- 10% of standard

PERSONAL DATA RAM
MODEL: _____
UNIT ID NO. _____

CALIBRATION OK? _____

FLOW
RATE

CONSTANT FLOW SAMPLE PUMPS FLOW RATE; L/min.

	REQUIRED:			OBTAINED:	OBTAINED:	TIME (IF DIFF. FROM ABOVE)	Total Time (min)	Ave. Flow Rate (L/M)	Total L Pumped
	HYDRO (1L/M)	PART (1L/M)	PAH (2L/M)						
1. UNIT ID NO.									
2. UNIT ID NO.									
3. UNIT ID NO.									
4. UNIT ID NO.									
5. UNIT ID NO.									
6. UNIT ID NO.									
7. UNIT ID NO.									
8. UNIT ID NO.									
9. UNIT ID NO.									
10. UNIT ID NO.									
11. UNIT ID NO.									
12. UNIT ID NO.									
13. UNIT ID NO.									
14. UNIT S/N									

NOTES:

HYDRO = Aromatic Hydrocarbons

Zero Air Lot # =

PART = Particulates

Isobutylene Lot # =

PAH = Polynuclear Aromatic Hydrocarbons

FIELD SCREENING DATA SHEET

PROJECT UPLAND REMEDIAL ACTION

DATE

CREW ID OR TASK ID

JOB NUMBER

SAMPLER SIGNATURE _____

TIME	LOCATION	VOCs ppmv	DUST mg/m3	CMS ppm	COMMENTS
	LOC 1				
	LOC 2				
	LOC 3				
	LOC 4				
	ACTION LEVEL	0.24 ppmv	0.15 mg/m3	0.24 ppm	

FIELD SAMPLING RECORD

PROJECT

UPLAND REMEDIAL ACTION

DATE

CREW ID OR TASK ID

JOB NUMBER

SAMPLER SIGNATURE

	PART(1L/M)	HYDRO(1L/M)	PAH (2L/M)	START	END	Total Min.	TOTAL VOLUME (L)	Pump ID
Location: North							PART =	
Pump ID:							HYDRO =	
Sample ID Part:							PAH =	
Sample ID Hydro:								
Sample ID PAH:								
Analyze:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Hold:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Location: Mid 1							PART =	
Pump ID:							HYDRO =	
Sample ID Part:							PAH =	
Sample ID Hydro:								
Sample ID PAH:								
Analyze:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Hold:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Location: Mid 2							PART =	
Pump ID:							HYDRO =	
Sample ID Part:							PAH =	
Sample ID Hydro:								
Sample ID PAH:								
Analyze:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Hold:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Location: South							PART =	
Pump ID:							HYDRO =	
Sample ID Part:							PAH =	
Sample ID Hydro:								
Sample ID PAH:								
Analyze:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Hold:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Duplicate Sample							PART =	
Location:							HYDRO =	
Pump ID:							PAH =	
Sample ID Part:								
Sample ID Hydro:								
Sample ID PAH:								
Analyze:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Hold:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

NOTES;

Field Blanks; open one set of the 3 sample containers and leave with a station location for the day. At the end of the day, cap these and list on the COC as **041217-Blank-Part** or **-AH** or **-PAH** for the day of Dec. 17, 2004.

I.D.: **YYMMDD-LOCATION-METHOD-D**(for D i.e.g. = **041217-North-Part** for Dec.17, 2004 Particulate sample, North location.

For Hydrocarbons; Refrigerate to 35-42° F and ship w/ ice. Secure with caps prior to shipping.

For PAHs; Cover with foil while sampling and shipping. Refrigerate to 35-42° F and ship w/ ice. Secure with caps prior to shipping.

For Particulates, secure with caps prior to shipping.

NiSource Laboratory Order Form (LOF)

Consultant Laboratory/Project Information		NiSource Site Accounting Code #		NiSource Project Name & Location		Site Code #	NiSource Project Manager		NiSource Task#
				Upland Remedial Action, Hammond, IN			Paul Exner		
Consultant Company	Consultant PM	Consultant Lab Coord		Consultant Address		Consultant Phone #	Con Ord Date	NiSource PO #	
NiSource Program Lab	Program Lab PM	Lab Address		Lab Phone #		NiSource Lab Coordinator		NiSource Order Date	
STL - Buffalo	Candace Fox	10 Hazelwood Drive, Suite 302, Amherst, NY 14228		716-691-2600		Paul Exner			
Anticipated Sampling Start Date		Anticipated Sampling Completion Date		Date Air Media Needed By		Actual Laboratory Report Delivery Date As Requested			

Report Deliverable and Turn Around Time information:			
Report Level Required	EDD Required?	Turn Around Time Requested for Results	State Program / Cleanup Objectives/Other Notes
<input checked="" type="checkbox"/> NiSource - Level I <input type="checkbox"/> NiSource - Level II <input type="checkbox"/> NiSource - Level III <input type="checkbox"/> Other - Specify	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> STANDARD (10 DAYS) <input type="checkbox"/> EXPEDITED (SPECIFY) <input type="checkbox"/> 24-HOUR <input type="checkbox"/> 48-HOUR <input type="checkbox"/> 3 - 5 DAY	Samples are from former MGP operations remediation site , expect concentration of BETX & PAHs to 1.0 mg/m ³ . Samples will be prioritized for analysis and/or may be requested for expedited turn-around. Program anticipates a total of 850 samples shipped to STL and request for analysis of approximately 33% or 280 samples.

PROJECT ANALYTICAL SCOPE														
PARAMETER	METHOD REFERENCE	REPORTING LIST & LIMITS	AQUEOUS			SOIL/SEDIMENT			AIR			SPECIAL REQUIREMENTS		
			NO.	UNIT COST	EXT. COST	NO.	UNIT COST	EXT. COST	NO.	UNIT COST	EXT. COST			
Polynuclear Aromatic Hydrocarbons in Aromatic Hydrocarbons in Ambient Air ⁽¹⁾	NIOSH 5515				\$0.00					\$0.00	300	\$0.00		
Particulate in Ambient Air	Modified NIOSH 1501				\$0.00					\$0.00	300	\$0.00		
	Modified NIOSH 0500				\$0.00					\$0.00	300	\$0.00		
SUB-TOTAL					\$0.00	SUB-TOTAL					\$0.00	SUB-TOTAL		\$0.00

QUOTED

TOTAL ANALYTICAL PROJECT COSTS:	\$0.00
--	---------------

See Notes 1 & 2

APPENDIX D

AIR MODEL DISPERSION FACTOR VALIDATION

VALIDATION OF THE DISPERSION FACTOR

Averaging Factors

As part of the interim validations, the laboratory results from all samples (prioritized and non-prioritized) will be compiled to calculate “running” averages of constituent concentrations for each location. These values will be compared to the maximum concentration values predicted by the model using the averaging value that is appropriate for the interim period being evaluated (Figure D-1). If the predicted constituent concentrations are greater than the measured values for each location, the averaging factor for the program will be considered to be valid. If this is not the case, the long-term modeling assumptions will be corrected for subsequent screening evaluations, and the averaging factor used in the evaluation increased accordingly.

Lateral Dispersion

The assumptions related to the effect of distance from the site on constituent concentrations will also be validated periodically throughout the program. Samples will be collected at an accessible location at a known distance (downwind) from the fence line of the site. The associated results from the closest fence line sampling location will be used in conjunction with the appropriate lateral dispersion factor for the distance of the downwind location from the fence line of the site (Figure D-2) to predict a worst-case concentration of COI for the downwind location. The predicted values will then be evaluated with respect to the measured concentrations at the location to ensure that the model results provided a conservative estimate of potential exposure (predicted value > measured value). If this is not the case, an appropriate factor will be applied to the results, and the modeling assumptions corrected for future site activities.

Figure D-1 Averaging Factors

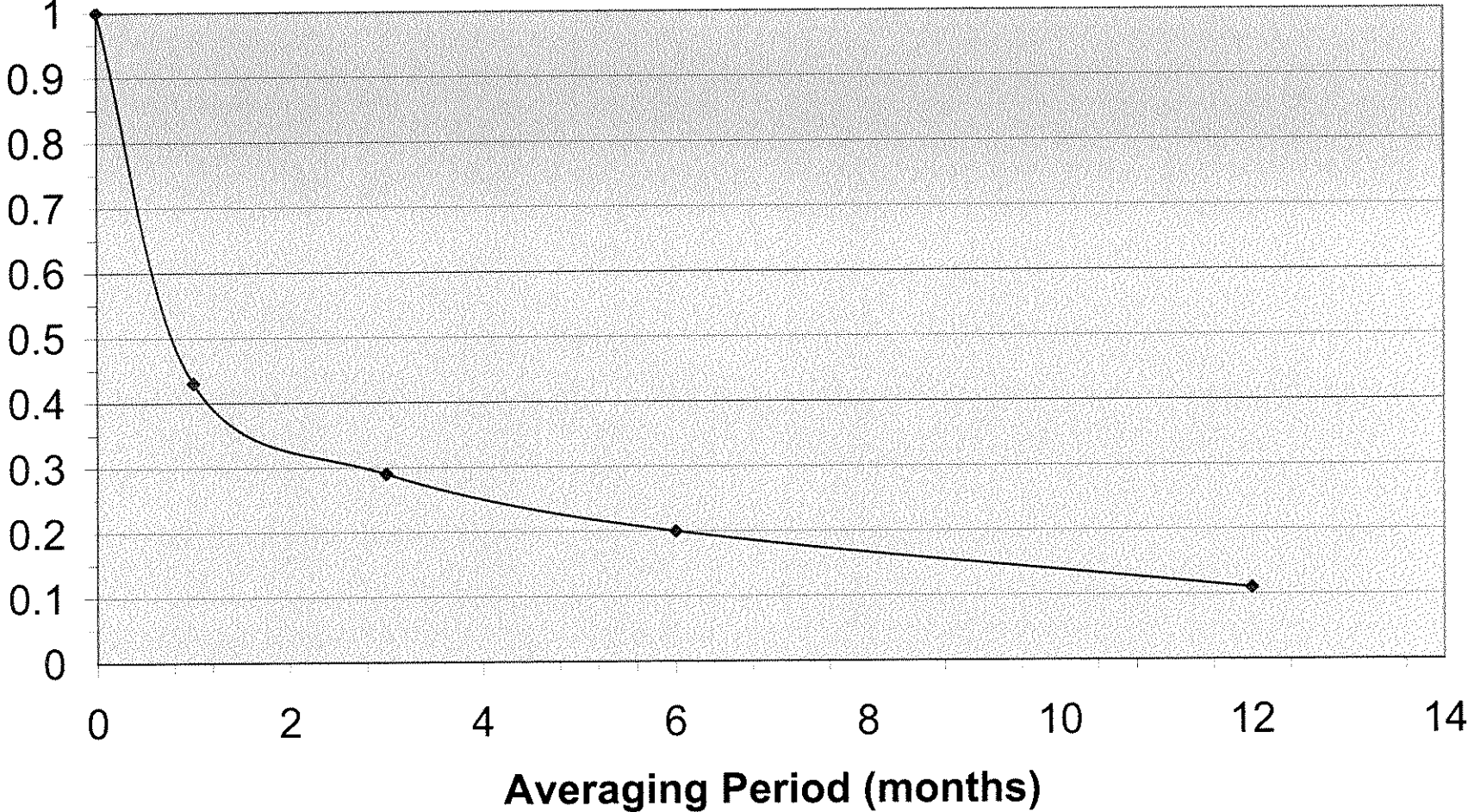
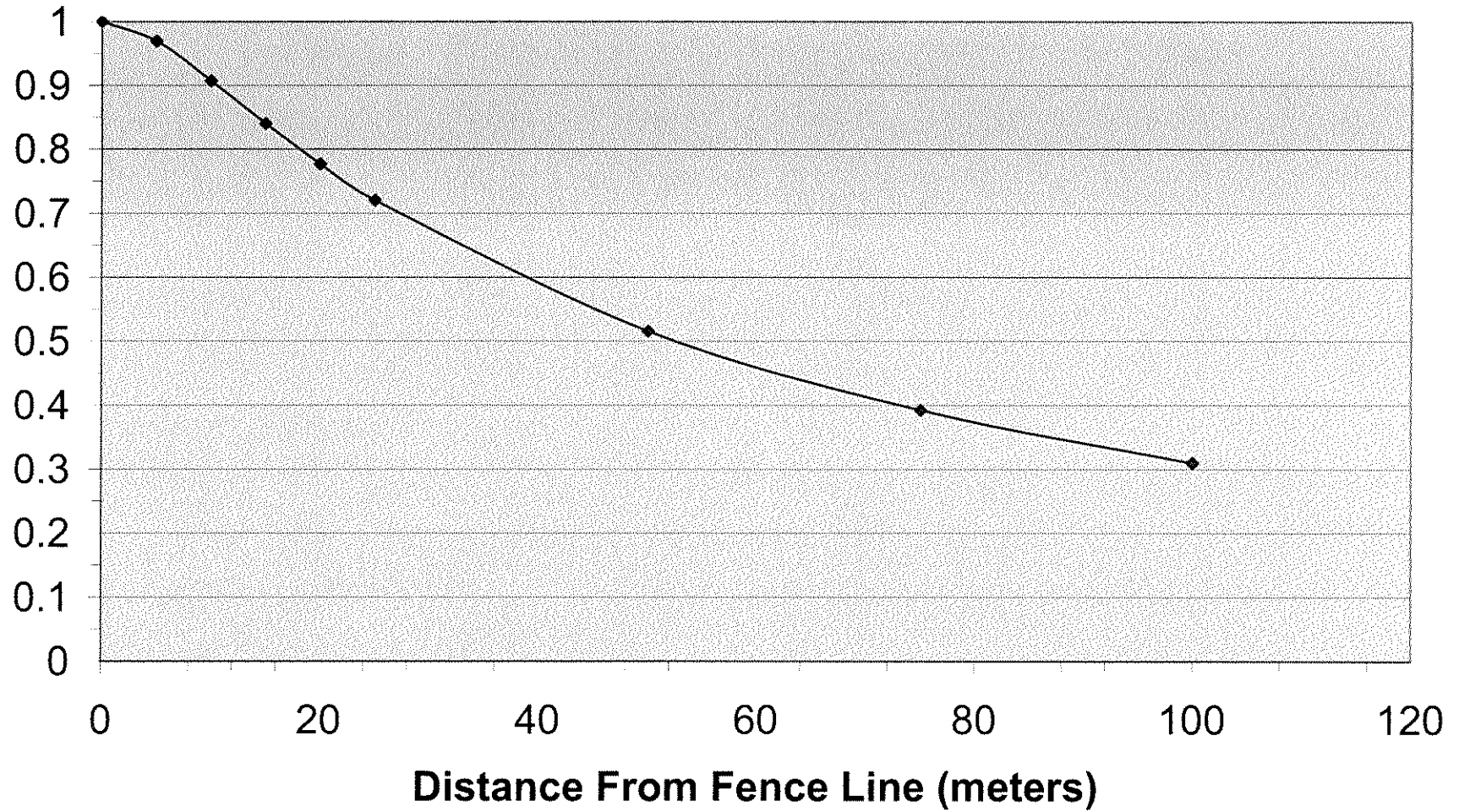


Figure D-2 Lateral Dispersion Factors



APPENDIX B

Air Pump Flow Data

GILAIR PUMP CALIBRATION

DATE: 10/29/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.017	2.019	8:00 AM	3:30 PM	7:30	7	30	450	2.017	908
Northwest XAD	2.628	2.640	8:00 AM	3:30 PM	7:30	7	30	450	2.628	1183
Northeast Anasorb	1.877	1.873	8:00 AM	3:30 PM	7:30	7	30	450	1.873	843
Northeast XAD	1.927	1.863	8:00 AM	3:30 PM	7:30	7	30	450	1.863	838
Southwest XAD	2.698	2.676	8:00 AM	3:30 PM	7:30	7	30	450	2.676	1204
Southwest Anasorb	1.519	1.510	8:00 AM	3:30 PM	7:30	7	30	450	1.510	680
Southeast XAD	1.952	1.935	8:00 AM	3:30 PM	7:30	7	30	450	1.935	871
Southeast Anasorb	1.923	1.91	8:00 AM	3:30 PM	7:30	7	30	450	1.910	860
Northwest Particulate										
Northeast Particulate	2.679	2.674	8:00 AM	3:30 PM	7:30	7	30	450	2.674	1203
Southwest Particulate										
Southeast Particulate	1.049	1.031	8:00 AM	3:30 PM	7:30	7	30	450	1.031	464
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate	2.322	2.300	9:00 AM	3:30 PM	6:30	6	30	390	2.300	897

GILAIR PUMP CALIBRATION

DATE: 10/30/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	1.987	1.982	7:45 AM	4:00 PM	8:15	8	15	495	1.982	981
Northwest XAD	2.611	2.600	7:45 AM	4:00 PM	8:15	8	15	495	2.600	1287
Northeast Anasorb	1.630	1.693	8:00 AM	4:00 PM	8:00	8	0	480	1.630	782
Northeast XAD	1.776	1.784	8:00 AM	4:00 PM	8:00	8	0	480	1.776	852
Southwest XAD	2.667	2.652	7:45 AM	4:00 PM	8:15	8	15	495	2.652	1313
Southwest Anasorb	1.475	1.482	7:45 AM	4:00 PM	8:15	8	15	495	1.475	730
Southeast XAD	1.855	1.829	8:00 AM	4:00 PM	8:00	8	0	480	1.829	878
Southeast Anasorb	1.712	1.704	8:00 AM	4:00 PM	8:00	8	0	480	1.704	818
Northwest Particulate										
Northeast Particulate	2.647	2.598	8:00 AM	4:00 PM	8:00	8	0	480	2.598	1247
Southwest Particulate										
Southeast Particulate	2.513	2.511	8:00 AM	4:00 PM	8:00	8	0	480	2.511	1205
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate	1.170	1.155	8:00 AM	4:00 PM	8:00	8	0	480	1.155	554

GILAIR PUMP CALIBRATION

DATE: 10/31/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	1.997	1.892	7:45 AM	4:00 PM	8:15	8	15	495	1.892	937
Northwest XAD	2.645	2.642	7:45 AM	4:00 PM	8:15	8	15	495	2.642	1308
Northeast Anasorb	1.938	1.921	7:30 AM	4:00 PM	8:30	8	30	510	1.921	980
Northeast XAD	1.843	1.809	7:30 AM	4:00 PM	8:30	8	30	510	1.809	923
Southwest XAD	2.651	2.151	7:45 AM	4:00 PM	8:15	8	15	495	2.151	1065
Southwest Anasorb	1.246	1.142	7:45 AM	4:00 PM	8:15	8	15	495	1.142	565
Southeast XAD	1.929	1.908	7:30 AM	4:00 PM	8:30	8	30	510	1.908	973
Southeast Anasorb	1.078	1.057	7:30 AM	4:00 PM	8:30	8	30	510	1.057	539
Northwest Particulate	0.000	0.000	7:45 AM	4:00 PM	8:15	8	15	495	0.000	0
Northeast Particulate	2.591	2.566	7:30 AM	4:00 PM	8:30	8	30	510	2.566	1309
Southwest Particulate										
Southeast Particulate	1.255	1.021	7:30 AM	4:00 PM	8:30	8	30	510	1.021	521
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate	2.668	2.310	7:30 AM	4:00 PM	8:30	8	30	510	2.310	1178

GILAIR PUMP CALIBRATION

DATE: 11/1/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.004	1.984	7:30 AM	3:30 PM	8:00	8	0	480	1.984	952
Northwest XAD	2.434	2.220	7:30 AM	3:30 PM	8:00	8	0	480	2.220	1066
Northeast Anasorb	1.811	1.790	7:30 AM	3:30 PM	8:00	8	0	480	1.790	859
Northeast XAD	1.794	1.788	7:30 AM	3:30 PM	8:00	8	0	480	1.788	858
Southwest XAD	2.678	2.326	7:30 AM	3:30 PM	8:00	8	0	480	2.326	1116
Southwest Anasorb	1.490	1.376	7:30 AM	3:30 PM	8:00	8	0	480	1.376	660
Southeast XAD	1.67	1.561	7:30 AM	3:30 PM	8:00	8	0	480	1.561	749
Southeast Anasorb	1.829	1.653	7:30 AM	3:30 PM	8:00	8	0	480	1.653	793
Northwest Particulate	1.592	1.510	7:30 AM	3:30 PM	8:00	8	0	480	1.510	725
Northeast Particulate									0.000	0
Southwest Particulate	1.866	1.765	7:30 AM	3:30 PM	8:00	8	0	480	1.765	847
Southeast Particulate									0.000	0
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate	2.484	2.263	7:30 AM	3:30 PM	8:00	8	0	480	2.263	1086

GILAIR PUMP CALIBRATION

DATE: 11/2/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	1.616	1.587	7:00 AM	3:00 PM	8:00	8	0	480	1.587	762
Northwest XAD	2.362	2.282	7:00 AM	3:00 PM	8:00	8	0	480	2.282	1095
Northeast Anasorb	1.761	1.747	7:00 AM	3:00 PM	8:00	8	15	480	1.747	839
Northeast XAD	0.000	0.000	12:00 AM	12:00 AM	0:00	0	0	0	0.000	0
Southwest XAD	2.719	2.665	7:00 AM	3:00 PM	8:00	8	0	480	2.665	1279
Southwest Anasorb	1.474	1.423	7:00 AM	3:00 PM	8:00	8	0	480	1.423	683
Southeast XAD	1.848	1.842	7:00 AM	3:00 PM	8:00	8	0	480	1.842	884
Southeast Anasorb	1.472	1.45	7:00 AM	3:00 PM	8:00	8	0	480	1.450	696
Northwest Particulate									0.000	0
Northeast Particulate	1.911	1.905	7:00 AM	3:00 PM	8:00	8	0	480	1.905	914
Southwest Particulate									0.000	0
Southeast Particulate	1.581	1.524	7:00 AM	3:00 PM	8:00	8	0	480	1.524	732
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								

D

GILAIR PUMP CALIBRATION

DATE: 11/5/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.072	2.013	7:00 AM	3:30 PM	8:30	8	30	510	2.013	1027
Northwest XAD	2.426	2.287	7:00 AM	3:30 PM	8:30	8	30	510	2.287	1166
Northeast Anasorb	2.222	1.891	7:00 AM	3:30 PM	8:30	8	30	510	1.891	964
Northeast XAD	2.010	2.000	7:00 AM	3:30 PM	8:30	8	30	510	2.000	1020
Southwest XAD	2.723	2.719	7:00 AM	3:30 PM	8:30	8	30	510	2.719	1387
Southwest Anasorb	1.863	1.519	7:00 AM	3:30 PM	8:30	8	30	510	1.519	775
Southeast XAD	2.1	2.011	7:00 AM	3:30 PM	8:30	8	30	510	2.011	1026
Southeast Anasorb	1.027	1.011	7:00 AM	3:30 PM	8:30	8	30	510	1.011	516
Northwest Particulate									0.000	0
Northeast Particulate	1.654	1.619	7:00 AM	3:30 PM	8:30	8	30	510	1.619	826
Southwest Particulate									0.000	0
Southeast Particulate	1.941	1.900	7:00 AM	3:30 PM	8:30	8	30	510	1.900	969
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate Offsite	2.710	2.682	7:00 AM	3:30 PM	8:30	8	30	510	2.682	1368

GILAIR PUMP CALIBRATION

DATE: 11/7/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.035	2.005	7:00 AM	3:30 PM	8:30	8	30	510	2.005	1023
Northwest XAD	2.163	2.201	7:00 AM	3:30 PM	8:30	8	30	510	2.163	1103
Northeast Anasorb	1.935	1.901	7:00 AM	3:30 PM	8:30	8	30	510	1.901	970
Northeast XAD	1.851	1.816	7:00 AM	3:30 PM	8:30	8	30	510	1.816	926
Southwest XAD	2.695	2.626	7:00 AM	3:30 PM	8:30	8	30	510	2.626	1339
Southwest Anasorb	1.666	1.545	7:00 AM	3:30 PM	8:30	8	30	510	1.545	788
Southeast XAD	2.011	1.955	7:00 AM	3:30 PM	8:30	8	30	510	1.955	997
Southeast Anasorb	1.265	1.257	7:00 AM	3:30 PM	8:30	8	30	510	1.257	641
Northwest Particulate	1.927	1.916	7:00 AM	3:30 PM	8:30	8	30	510	1.916	977
Northeast Particulate	1.599	1.567	7:00 AM	3:30 PM	8:30	8	30	510	1.567	799
Southwest Particulate										
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate XAD SE	2.606	2.584	7:00 AM	3:30 PM	8:30	8	30	510	2.584	1318

GILAIR PUMP CALIBRATION

DATE: 11/8/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.279	2.037	7:00 AM	3:30 PM	8:30	8	30	510	2.037	1039
Northwest XAD	2.485	2.411	7:00 AM	3:30 PM	8:30	8	30	510	2.411	1230
Northeast Anasorb	1.850	1.833	7:00 AM	3:30 PM	8:30	8	30	510	1.833	935
Northeast XAD	2.073	2.023	7:00 AM	3:30 PM	8:30	8	30	510	2.023	1032
Southwest XAD	2.740	2.456	7:00 AM	3:30 PM	8:30	8	30	510	2.456	1253
Southwest Anasorb	1.506	1.444	7:00 AM	3:30 PM	8:30	8	30	510	1.444	736
Southeast XAD	2.04	2.014	7:00 AM	3:30 PM	8:30	8	30	510	2.014	1027
Southeast Anasorb	1.405	1.32	7:00 AM	3:30 PM	8:30	8	30	510	1.320	673
Northwest Particulate										
Northeast Particulate										
Southwest Particulate	1.901	1.897	7:00 AM	3:30 PM	8:30	8	30	510	1.897	967
Southeast Particulate	2.043	1.957	7:00 AM	3:30 PM	8:30	8	30	510	1.957	998
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate Anasorb Southeast	2.775	2.657	7:00 AM	3:30 PM	8:30	8	30	510	2.657	1355

GILAIR PUMP CALIBRATION

DATE: 11/9/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.010	1.936	7:00 AM	14:30 PM	7:30	7	30	510	1.936	987
Northwest XAD	2.423	2.223	7:00 AM	14:30 PM	7:30	7	30	510	2.223	1134
Northeast Anasorb	1.855	1.803	7:00 AM	14:30 PM	7:30	7	30	510	1.803	920
Northeast XAD	2.025	2.007	7:00 AM	14:30 PM	7:30	7	30	510	2.007	1024
Southwest XAD	2.716	2.695	7:00 AM	14:30 PM	7:30	7	30	510	2.695	1374
Southwest Anasorb	1.538	1.500	7:00 AM	14:30 PM	7:30	7	30	510	1.500	765
Southeast XAD	2.111	2.01	7:00 AM	14:30 PM	7:30	7	30	510	2.010	1025
Southeast Anasorb	1.155	1.034	7:00 AM	14:30 PM	7:30	7	30	510	1.034	527
Northwest Particulate										
Northeast Particulate										
Southwest Particulate	1.655	1.610	7:00 AM	14:30 PM	7:30	7	30	450	1.610	725
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate Anasorb Northeast	2.369	2.313	7:00 AM	14:30 PM	7:30	7	30	510	2.313	1180

GILAIR PUMP CALIBRATION

DATE: 11/9/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.020	1.984	7:00 AM	3:30 PM	8:30	8	30	510	1.984	1012
Northwest XAD	2.479	2.190	7:00 AM	3:30 PM	8:30	8	30	510	2.190	1117
Northeast Anasorb	1.897	1.876	7:00 AM	3:30 PM	8:30	8	30	510	1.876	957
Northeast XAD	2.109	2.050	7:00 AM	3:30 PM	8:30	8	30	510	2.050	1046
Southwest XAD	2.709	2.650	7:00 AM	3:30 PM	8:30	8	30	510	2.650	1352
Southwest Anasorb	1.425	1.403	7:00 AM	3:30 PM	8:30	8	30	510	1.403	716
Southeast XAD	2.102	2.111	7:00 AM	3:30 PM	8:30	8	30	510	2.102	1072
Southeast Anasorb	1.909	1.702	7:00 AM	3:30 PM	8:30	8	30	510	1.702	868
Northwest Particulate										
Northeast Particulate	1.866	1.654	7:00 AM	3:30 PM	8:30	8	30	510	1.654	844
Southwest Particulate	1.623	1.599	7:00 AM	3:30 PM	8:30	8	30	510	1.599	815
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate Anasorb Northeast	2.13	2.021	7:00 AM	3:30 PM	8:30	8	30	510	2.021	1031

GILAIR PUMP CALIBRATION

DATE: 11/9/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.093	2.032	7:00 AM	3:30 PM	8:30	8	30	510	2.032	1036
Northwest XAD	2.471	2.430	7:00 AM	3:30 PM	8:30	8	30	510	2.430	1239
Northeast Anasorb	1.867	1.843	7:00 AM	3:30 PM	8:30	8	30	510	1.843	940
Northeast XAD	2.110	2.010	7:00 AM	3:30 PM	8:30	8	30	510	2.010	1025
Southwest XAD	2.719	2.699	7:00 AM	3:30 PM	8:30	8	30	510	2.699	1376
Southwest Anasorb	1.520	1.438	7:00 AM	3:30 PM	8:30	8	30	510	1.438	733
Southeast XAD	2.021	1.934	7:00 AM	3:30 PM	8:30	8	30	510	1.934	986
Southeast Anasorb	1.673	1.654	7:00 AM	3:30 PM	8:30	8	30	510	1.654	844
Northwest Particulate										
Northeast Particulate	1.635	1.610	7:00 AM	3:30 PM	8:30	8	30	510	1.610	821
Southwest Particulate			7:00 AM	3:30 PM	8:30	8	30	510	0.000	0
Southeast Particulate	1.937	1.901	7:00 AM	3:30 PM	8:30	8	30	510	1.901	970
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate Anasorb Northeast	2.648	2.353	7:00 AM	3:30 PM	8:30	8	30	510	2.353	1200

GILAIR PUMP CALIBRATION

DATE: 11/14/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.183	2.028	7:00 AM	3:30 PM	8:30	8	30	510	2.028	1034
Northwest XAD	2.292	2.323	7:00 AM	3:30 PM	8:30	8	30	510	2.292	1169
Northeast Anasorb	1.899	1.856	7:00 AM	3:30 PM	8:30	8	30	510	1.856	947
Northeast XAD	2.050	2.022	7:00 AM	3:30 PM	8:30	8	30	510	2.022	1031
Southwest XAD	2.876	2.678	7:00 AM	3:30 PM	8:30	8	30	510	2.678	1366
Southwest Anasorb	1.558	1.548	7:00 AM	3:30 PM	8:30	8	30	510	1.548	789
Southeast XAD	2.247	2.177	7:00 AM	3:30 PM	8:30	8	30	510	2.177	1110
Southeast Anasorb	2.068	1.975	7:00 AM	3:30 PM	8:30	8	30	510	1.975	1007
Northwest Particulate	1.951	1.870	7:00 AM	3:30 PM	8:30	8	30	510	1.870	954
Northeast Particulate			7:00 AM	3:30 PM	8:30	8	30	510	0.000	0
Southwest Particulate	1.680	1.653	7:00 AM	3:30 PM	8:30	8	30	510	1.653	843
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Duplicate Anasorb Northeast	2.15	2.112	7:00 AM	3:30 PM	8:30	8	30	510	2.112	1077

GILAIR PUMP CALIBRATION

DATE: 11/15/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.097	2.023	7:00 AM	3:00 PM	8:00	8		480	2.023	971
Northwest XAD	2.520	2.216	7:00 AM	3:00 PM	8:00	8		480	2.216	1064
Northeast Anasorb	1.906	1.855	7:00 AM	4:00 PM	9:00	9		540	1.855	1002
Northeast XAD	2.037	2.005	7:00 AM	4:00 PM	9:00	9		540	2.005	1083
Southwest XAD	2.765	2.747	7:00 AM	3:00 PM	8:00	8		480	2.747	1319
Southwest Anasorb	1.556	1.532	7:00 AM	3:00 PM	8:00	8		480	1.532	735
Southeast XAD	2.567	2.42	7:00 AM	3:00 PM	8:00	8		480	2.420	1162
Southeast Anasorb	2.145	2.101	7:00 AM	3:00 PM	8:00	8		480	2.101	1008
Northwest Particulate										
Northeast Particulate	1.694	1.669	7:00 AM	4:00 PM	9:00	9		540	1.669	901
Southwest Particulate										
Southeast Particulate	2.067	2.022	7:00 AM	3:00 PM	8:00	8		480	2.022	971
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Southeast XAD Dupe	2.175	1.171	7:00 AM	3:00 PM	8:00	8		480	1.171	562
Northeast Anasorb Dupe	2.563	2.465	7:00 AM	4:00 PM	9:00	8		540	2.465	1331

GILAIR PUMP CALIBRATION

DATE: 11/16/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.001	1.955	7:00 AM	3:00 PM	8:00	8	0	480	1.955	938
Northwest XAD	2.506	2.342	7:00 AM	3:00 PM	8:00	8	0	480	2.342	1124
Northeast Anasorb	2.031	2.013	7:00 AM	3:00 PM	8:00	8	0	480	2.013	966
Northeast XAD	2.174	1.877	7:00 AM	3:00 PM	8:00	8	0	480	1.877	901
Southwest XAD	2.755	2.656	7:00 AM	3:00 PM	8:00	8	0	480	2.656	1275
Southwest Anasorb	1.569	1.233	7:00 AM	3:00 PM	8:00	8	0	480	1.233	592
Southeast XAD	2.702	2.402	7:00 AM	3:00 PM	8:00	8	0	480	2.402	1153
Southeast Anasorb	2.113	2.072	7:00 AM	3:00 PM	8:00	8	0	480	2.072	995
Northwest Particulate										
Northeast Particulate	1.644	1.612	7:00 AM	3:00 PM	8:00	8	0	510	1.612	822
Southwest Particulate	2.039	1.902	7:00 AM	3:00 PM	8:00	8	0	510	1.902	970
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Southeast XAD Dupe	0	0	7:00 AM	3:00 PM	0:00	0	0	0	0.000	0
Northeast Anasorb Dupe	1.16	1.045	7:00 AM	4:00 PM	8:00	8	0	480	1.045	502

GILAIR PUMP CALIBRATION

DATE: 11/17/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.220	2.068	6:30 AM	10:00 AM	3:30	3	30	210	2.068	434
Northwest XAD	2.465	2.403	6:30 AM	10:00 AM	3:30	3	30	210	2.403	505
Northeast Anasorb	2.013	1.987	6:30 AM	10:00 AM	3:30	3	30	210	1.987	417
Northeast XAD	2.101	2.100	6:30 AM	10:00 AM	3:30	3	30	210	2.100	441
Southwest XAD	2.762	2.604	6:30 AM	10:00 AM	3:30	3	30	210	2.604	547
Southwest Anasorb	1.568	1.510	6:30 AM	10:00 AM	3:30	3	30	210	1.510	317
Southeast XAD	2.685	2.534	6:30 AM	10:00 AM	3:30	3	30	210	2.534	532
Southeast Anasorb	1.837	1.764	6:30 AM	10:00 AM	3:30	3	30	210	1.764	370
Northwest Particulate	2.029	1.987	6:30 AM	10:00 AM	3:30	3	30	210	1.987	417
Northeast Particulate	1.670	1.639	6:30 AM	10:00 AM	3:30	3	30	210	1.639	344
Southwest Particulate										
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Southeast Anasorb Dupe	1.782	1.734	6:30 AM	10:00 AM	3:30	3	30	210	1.734	364
Northeast Xad Dupe	2.496	2.321	6:30 AM	10:00 AM	3:30	3	30	210	2.321	487

GILAIR PUMP CALIBRATION

DATE: 11/26/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.049	2.021	6:30 AM	3:30 PM		9	0	540	2.021	1091
Northwest XAD	2.454	2.261	6:30 AM	3:30 PM		9	0	540	2.261	1221
Northeast Anasorb	1.999	1.985	6:30 AM	3:30 PM		9	0	540	1.985	1072
Northeast XAD	2.013	1.923	6:30 AM	3:30 PM		9	0	540	1.923	1038
Southwest XAD	2.737	2.654	6:30 AM	3:30 PM		9	0	540	2.654	1433
Southwest Anasorb	1.573	1.548	6:30 AM	3:30 PM		9	0	540	1.548	836
Southeast XAD	2.747	2.734	6:30 AM	3:30 PM		9	0	540	2.734	1476
Southeast Anasorb	1.573	1.476	6:30 AM	3:30 PM		9	0	540	1.476	797
Northwest Particulate	1.668	1.634	6:30 AM	3:30 PM		9	0	540	1.634	882
Northeast Particulate	2.005	1.993	6:30 AM	3:30 PM		9	0	540	1.993	1076
Southwest Particulate										
Southeast Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Southeast Anasorb Dupe	1.336	1.215	6:30 AM	3:30 PM		9	0	540	1.215	656
Southeast Xad Dupe	2.056	1.971	6:30 AM	3:30 PM		9	0	540	1.971	1064

GILAIR PUMP CALIBRATION

DATE: 11/27/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
Northwest Anasorb	2.019	2.000	6:30 AM	3:30 PM		9	0	540	2.000	1080
Northwest XAD	2.514	2.290	6:30 AM	3:30 PM		9	0	540	2.290	1237
Northeast Anasorb	2.010	1.921	6:30 AM	3:30 PM		9	0	540	1.921	1037
Northeast XAD	2.001	1.899	6:30 AM	3:30 PM		9	0	540	1.899	1025
Southwest XAD	2.839	2.704	6:30 AM	3:30 PM		9	0	540	2.704	1460
Southwest Anasorb	1.562	1.429	6:30 AM	3:30 PM		9	0	540	1.429	772
Southeast XAD	2.811	2.768	6:30 AM	3:30 PM		9	0	540	2.768	1495
Southeast Anasorb	1.444	1.355	6:30 AM	3:30 PM		9	0	540	1.355	732
Northwest Particulate	1.648	1.567	6:30 AM	3:30 PM		9	0	540	1.567	846
Northeast Particulate										0
Southwest Particulate										
Southeast Particulate	2.043	1.969	6:30 AM	3:30 PM		9	0	540	1.969	1063
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
Northwest Anasorb Dupe	1.377	1.255	6:30 AM	3:30 PM		9	0	540	1.255	678
Southeast Xad Dupe	2.012	1.988	6:30 AM	3:30 PM		9	0	540	1.988	1074

GILAIR PUMP CALIBRATION

DATE: 11/29/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.139	2.011	6:30 AM	3:30 PM	9:00	9	0	540	2.011	1086
North XAD	2.503	2.401	6:30 AM	3:30 PM	9:00	9	0	540	2.401	1297
East Anasorb	1.932	1.876	6:30 AM	3:30 PM	9:00	9	0	540	1.876	1013
East XAD	1.891	1.855	6:30 AM	3:30 PM	9:00	9	0	540	1.855	1002
West Anasorb	1.859	1.841	6:30 AM	3:30 PM	9:00	9	0	540	1.841	994
West XAD	2.809	2.744	6:30 AM	3:30 PM	9:00	9	0	540	2.744	1482
South Anasorb	1.832	1.765	6:30 AM	3:30 PM	9:00	9	0	540	1.765	953
South XAD	2.015	2	6:30 AM	3:30 PM	9:00	9	0	540	2.000	1080
North Particulate										
East Particulate	2.114	2.067	6:30 AM	3:30 PM	9:00	9	0	540	2.067	1116
West Particulate	1.738	1.726	6:30 AM	3:30 PM	9:00	9	0	540	1.726	932
South Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe	1.111	1.073	6:30 AM	3:30 PM	9:00	9	0	540	1.073	579
South XAD Dupe	1.191	1.081	6:30 AM	3:30 PM	9:00	9	0	540	1.081	584

GILAIR PUMP CALIBRATION

DATE: 11/29/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.059	2.089	6:30 AM	3:30 PM		9	0	540	2.059	1112
North XAD	2.523	2.320	6:30 AM	3:30 PM		9	0	540	2.320	1253
East Anasorb	1.955	1.939	6:30 AM	3:30 PM		9	0	540	1.939	1047
East XAD	2.036	1.997	6:30 AM	3:30 PM		9	0	540	1.997	1078
West Anasorb	1.607	1.532	6:30 AM	3:30 PM		9	0	540	1.532	827
West XAD	2.798	2.702	6:30 AM	3:30 PM		9	0	540	2.702	1459
South Anasorb	1.234	1.198	6:30 AM	3:30 PM		9	0	540	1.198	647
South XAD	2.098	1.973	6:30 AM	3:30 PM		9	0	540	1.973	1065
North Particulate	1.690	1.678	6:30 AM	3:30 PM		9	0	540	1.678	906
East Particulate										
West Particulate										
South Particulate	2.156	2.081	6:30 AM	3:30 PM		9	0	540	2.081	1124
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
North Ana Dupe	1.103	1.097	6:30 AM	3:30 PM		9	0	540	1.097	592
North XAD Dupe	2.054	1.981	6:30 AM	3:30 PM		9	0	540	1.981	1070

GILAIR PUMP CALIBRATION

DATE: 12/7/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.034	2.005	6:30 AM	3:30 PM	9:00	9	0	540	2.005	1083
North XAD	2.330	2.260	6:30 AM	3:30 PM	9:00	9	0	540	2.260	1220
East Anasorb	1.709	1.536	6:30 AM	3:30 PM	9:00	9	0	540	1.536	829
East XAD	2.170	2.109	6:30 AM	3:30 PM	9:00	9	0	540	2.109	1139
West Anasorb	1.539	1.435	6:30 AM	3:30 PM	9:00	9	0	540	1.435	775
West XAD	2.986	2.831	6:30 AM	3:30 PM	9:00	9	0	540	2.831	1529
South Anasorb	2.161	2.043	6:30 AM	3:30 PM	9:00	9	0	540	2.043	1103
South XAD	2.045	1.997	6:30 AM	3:30 PM	9:00	9	0	540	1.997	1078
North Particulate										
East Particulate	2.208	2.099	6:30 AM	3:30 PM	9:00	9	0	540	2.099	1133
West Particulate										
South Particulate	1.828	1.678	6:30 AM	3:30 PM	9:00	9	0	540	1.678	906
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe	1.22	1.057	6:30 AM	3:30 PM	9:00	9	0	540	1.057	571
Eastern XAD Dupe	2.169	2.036	6:30 AM	3:30 PM	9:00	9	0	540	2.036	1099

GILAIR PUMP CALIBRATION

DATE: 11/29/2007

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.022	2.016	6:30 AM	3:30 PM		9	0	540	2.016	1089
North XAD	2.468	2.298	6:30 AM	3:30 PM		9	0	540	2.298	1241
East Anasorb	1.986	1.942	6:30 AM	3:30 PM		9	0	540	1.942	1049
East XAD	2.075	2.064	6:30 AM	3:30 PM		9	0	540	2.064	1115
West Anasorb	1.597	1.575	6:30 AM	3:30 PM		9	0	540	1.575	851
West XAD	2.858	2.846	6:30 AM	3:30 PM		9	0	540	2.846	1537
South Anasorb	1.574	1.497	6:30 AM	3:30 PM		9	0	540	1.497	808
South XAD	2.021	2.009	6:30 AM	3:30 PM		9	0	540	2.009	1085
North Particulate										
East Particulate	2.221	2.135	6:30 AM	3:30 PM		9	0	540	2.135	1153
West Particulate	1.798	1.737	6:30 AM	3:30 PM		9	0	540	1.737	938
South Particulate										
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
North Ana Dupe	1.224	1.109	6:30 AM	3:30 PM		9	0	540	1.109	599
Eastern XAD Dupe	2.107	1.986	6:30 AM	3:30 PM		9	0	540	1.986	1072

GILAIR PUMP CALIBRATION

DATE: 7/17/2008

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.034	2.016	7:00 AM	4:00 PM	9:00	9	0	540	2.016	1089
North XAD	2.765	2.506	7:00 AM	4:00 PM	9:00	9	0	540	2.506	1353
East Anasorb	2.101	1.915	7:00 AM	4:00 PM	9:00	9	0	540	1.915	1034
East XAD	2.002	1.820	7:00 AM	4:00 PM	9:00	9	0	540	1.820	983
West Anasorb	1.873	1.728	7:00 AM	4:00 PM	9:00	9	0	540	1.728	933
West XAD	2.569	2.508	7:00 AM	4:00 PM	9:00	9	0	540	2.508	1354
South Anasorb	1.546	1.363	7:00 AM	4:00 PM	9:00	9	0	540	1.363	736
South XAD	2.733	2.182	7:00 AM	4:00 PM	9:00	9	0	540	2.182	1178
North Particulate	1.587	1.656	7:00 AM	4:00 PM	9:00	9	0	540	1.587	857
East Particulate			7:00 AM	4:00 PM						0
West Particulate			7:00 AM	4:00 PM						
South Particulate	2.001	2.000	7:00 AM	4:00 PM	9:00	9	0	540	2.000	1080
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe	1.303	1.201	6:30 AM	3:30 PM	9:00	9	0	540	1.201	649
East XAD Dupe	2.02	1.847	6:30 AM	3:30 PM	9:00	9	0	540	1.847	997

GILAIR PUMP CALIBRATION

DATE: 7/16/2008

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.189	2.179	7:00 AM	4:00 PM	9:00	9	0	540	2.179	1177
North XAD	2.096	2.087	7:00 AM	4:00 PM	9:00	9	0	540	2.087	1127
East Anasorb	2.141	2.014	7:00 AM	4:00 PM	9:00	9	0	540	2.014	1088
East XAD	2.226	2.119	7:00 AM	4:00 PM	9:00	9	0	540	2.119	1144
West Anasorb	2.158	2.136	7:00 AM	4:00 PM	9:00	9	0	540	2.136	1153
West XAD	2.150	2.282	7:00 AM	4:00 PM	9:00	9	0	540	2.150	1161
South Anasorb	2.051	2.016	7:00 AM	4:00 PM	9:00	9	0	540	2.016	1089
South XAD	2.19	2.029	7:00 AM	4:00 PM	9:00	9	0	540	2.029	1096
North Particulate			7:00 AM	4:00 PM						
East Particulate	2.144	2.039	7:00 AM	4:00 PM	9:00	9	0	540	2.039	1101
West Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South Particulate	2.119	2.034	7:00 AM	4:00 PM	9:00	9	0	540	2.034	1098
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe	1.082	1.045	6:30 AM	3:30 PM	9:00	9	0	540	1.045	564
East XAD Dupe	2.11	2.018	6:30 AM	3:30 PM	9:00	9	0	540	2.018	1090

GILAIR PUMP CALIBRATION

DATE: 7/17/2008

PUMP NO.	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Total Minutes	Flow Rate (L/MIN)	Volume (L)
	AM	PM								
North Anasorb	2.544	2.334	7:00 AM	4:00 PM	9:00	9	0	540	2.334	1260
North XAD	2.186	2.150	7:00 AM	4:00 PM	9:00	9	0	540	2.150	1161
East Anasorb	2.208	2.156	7:00 AM	4:00 PM	9:00	9	0	540	2.156	1164
East XAD	2.102	2.152	7:00 AM	4:00 PM	9:00	9	0	540	2.102	1135
West Anasorb	2.230	2.201	7:00 AM	4:00 PM	9:00	9	0	540	2.201	1189
West XAD	2.584	2.293	7:00 AM	4:00 PM	9:00	9	0	540	2.293	1238
South Anasorb	2.185	2.036	7:00 AM	4:00 PM	9:00	9	0	540	2.036	1099
South XAD	2.192	2.019	7:00 AM	4:00 PM	9:00	9	0	540	2.019	1090
North Particulate	2.024	2.081	7:00 AM	4:00 PM	9:00	9	0	540	2.024	1093
East Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
West Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South Particulate	2.024	2.005	7:00 AM	4:00 PM	9:00	9	0	540	2.005	1083
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe			6:30 AM	3:30 PM	9:00	9	0	540	0.000	0
South XAD Dupe			6:30 AM	3:30 PM	9:00	9	0	540	0.000	0

GILAIR PUMP CALIBRATION

DATE: 7/18/2008

	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Minutes	(L/MIN)	(L)
	AM	PM								
North Anasorb	2.139	2.009	7:00 AM	4:00 PM	9:00	9	0	540	2.009	1085
North XAD	2.135	2.068	7:00 AM	4:00 PM	9:00	9	0	540	2.068	1117
East Anasorb	2.121	2.009	7:00 AM	4:00 PM	9:00	9	0	540	2.009	1085
East XAD	2.323	2.180	7:00 AM	4:00 PM	9:00	9	0	540	2.180	1177
West Anasorb	2.225	2.052	7:00 AM	4:00 PM	9:00	9	0	540	2.052	1108
West XAD	2.674	2.506	7:00 AM	4:00 PM	9:00	9	0	540	2.506	1353
South Anasorb	2.039	2.021	7:00 AM	4:00 PM	9:00	9	0	540	2.021	1091
South XAD	2.593	2.201	7:00 AM	4:00 PM	9:00	9	0	540	2.201	1189
North Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
East Particulate	2.393	2.193	7:00 AM	4:00 PM	9:00	9	0	540	2.193	1184
West Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South Particulate	2.182	2.031	7:00 AM	4:00 PM	9:00	9	0	540	2.031	1097
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe			6:30 AM	3:30 PM	9:00	9	0	540	0.000	0
South XAD Dupe			6:30 AM	3:30 PM	9:00	9	0	540	0.000	0

GILAIR PUMP CALIBRATION

DATE: 7/23/2008

	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Minutes	(L/MIN)	(L)
	AM	PM								
North Anasorb	2.343	2.231	7:00 AM	4:00 PM	9:00	9	0	540	2.231	1205
North XAD	2.226	2.067	7:00 AM	4:00 PM	9:00	9	0	540	2.067	1116
East Anasorb	2.186	2.018	7:00 AM	4:00 PM	9:00	9	0	540	2.018	1090
East XAD	2.626	2.204	7:00 AM	4:00 PM	9:00	9	0	540	2.204	1190
West Anasorb	2.462	2.030	7:00 AM	4:00 PM	9:00	9	0	540	2.030	1096
West XAD	2.433	2.156	7:00 AM	4:00 PM	9:00	9	0	540	2.156	1164
South Anasorb	2.155	2.044	7:00 AM	4:00 PM	9:00	9	0	540	2.044	1104
South XAD	2.184	2.127	7:00 AM	4:00 PM	9:00	9	0	540	2.127	1149
North Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
East Particulate	2.635	2.034	7:00 AM	4:00 PM	9:00	9	0	540	2.034	1098
West Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South Particulate	2.321	2.141	7:00 AM	4:00 PM	9:00	9	0	540	2.141	1156
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South XAD Dupe	2.33	2.22	7:00 AM	4:00 PM	9:00	9	0	540	2.220	1199

GILAIR PUMP CALIBRATION

DATE: 7/24/2008

	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Minutes	(L/MIN)	(L)
	AM	PM								
North Anasorb	2.134	2.123	7:00 AM	4:00 PM	9:00	9	0	540	2.123	1146
North XAD	2.126	2.119	7:00 AM	4:00 PM	9:00	9	0	540	2.119	1144
East Anasorb	2.024	2.007	7:00 AM	4:00 PM	9:00	9	0	540	2.007	1084
East XAD	2.179	2.151	7:00 AM	4:00 PM	9:00	9	0	540	2.151	1162
West Anasorb	3.845	3.843	7:00 AM	4:00 PM	9:00	9	0	540	3.843	2075
West XAD	2.494	2.488	7:00 AM	4:00 PM	9:00	9	0	540	2.488	1344
South Anasorb	2.447	2.425	7:00 AM	4:00 PM	9:00	9	0	540	2.425	1310
South XAD	2.315	2.314	7:00 AM	4:00 PM	9:00	9	0	540	2.314	1250
North Particulate	2.368	2.407	7:00 AM	4:00 PM	9:00	9	0	540	2.368	1279
East Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
West Particulate			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South Particulate	2.168	2.164	7:00 AM	4:00 PM	9:00	9	0	540	2.164	1169
PID Calibration OK	√	JDH								
Data Ram Calibration OK	√	JDH								
South Ana Dupe			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South XAD Dupe			7:00 AM	4:00 PM	9:00	9	0	540	0.000	0

GILAIR PUMP CALIBRATION

DATE: 7/25/2008

480

	AM	PM									
North Anasorb	2.199	2.163	7:00 AM	3:00 PM	8:00	9	0	480	2.163	1038	
North XAD	2.292	2.308	7:00 AM	3:00 PM	8:00	9	0	480	2.292	1100	
East Anasorb	2.219	2.206	7:00 AM	3:00 PM	8:00	9	0	480	2.206	1059	
East XAD	2.151	2.157	7:00 AM	3:00 PM	8:00	9	0	480	2.151	1032	
West Anasorb	2.470	2.470	7:00 AM	3:00 PM	8:00	9	0	480	2.470	1186	
West XAD	3.821	3.821	7:00 AM	3:00 PM	8:00	9	0	480	3.821	1834	
South Anasorb	2.214	2.212	7:00 AM	3:00 PM	8:00	9	0	480	2.212	1062	
South XAD	2.043	2.048	7:00 AM	3:00 PM	8:00	9	0	480	2.043	981	
North Particulate	2.117	2.115	7:00 AM	3:00 PM	8:00	9	0	480	2.115	1015	
East Particulate			7:00 AM	3:00 PM	8:00	9	0	480	0.000	0	
West Particulate			7:00 AM	3:00 PM	8:00	9	0	480	0.000	0	
South Particulate	2.356	2.346	7:00 AM	3:00 PM	8:00	9	0	480	2.346	1126	
PID Calibration OK	√	JDH									
Data Ram Calibration OK	√	JDH									
Outside Fence Anasorb	2.085	2.09	7:00 AM	3:00 PM	8:00	9	0	480	2.085	1001	
South XAD Dupe			7:00 AM	3:00 PM	8:00	9	0	480	0.000	0	

GILAIR PUMP CALIBRATION

DATE: 7/28/2008

	AM	PM								
North Anasorb	2.047	2.050	7:00 AM	4:30 PM	9:30	9	30	570	2.047	1167
North XAD	2.364	2.455	7:00 AM	4:30 PM	9:30	9	30	570	2.364	1347
East Anasorb	2.229	2.158	7:00 AM	4:30 PM	9:00	9	30	570	2.565	1462
East XAD	2.441	2.447	7:00 AM	4:30 PM	9:00	9	30	570	2.158	1230
West Anasorb	2.172	2.163	7:00 AM	4:30 PM	9:00	9	30	570	2.441	1391
West XAD	2.231	2.243	7:00 AM	4:30 PM	9:00	9	30	570	2.163	1233
South Anasorb	2.332	2.336	7:00 AM	4:30 PM	9:00	9	30	570	2.332	1329
South XAD	2.391	2.394	7:00 AM	4:30 PM	9:00	9	30	570	2.391	1363
North Particulate	2.565	2.599	7:00 AM	4:30 PM	9:00	9	30	570	2.391	1363
East Particulate			7:00 AM	4:30 PM	9:00	9	30	570	0.000	0
West Particulate			7:00 AM	4:30 PM	9:00	9	30	570	0.000	0
South Particulate	2.166	2.106	7:00 AM	4:30 PM	9:00	9	30	570	2.106	1200
PID Calibration OK	√	JMB								
Data Ram Calibration OK	√	JMB								
South Ana Dupe			7:00 AM	4:30 PM	9:00	9	30	570	0.000	0
South XAD Dupe			7:00 AM	4:30 PM	9:00	9	30	570	0.000	0

GILAIR PUMP CALIBRATION

DATE: 7/29/2008

	Serial Number	AM	PM									
North Anasorb	644939	2.100	2.092	7:00 AM	4:00 PM	9:00	9	0	540	2.092	1130	
North XAD	644429	2.390	2.327	7:00 AM	4:00 PM	9:00	9	0	540	2.327	1257	
East Anasorb	799656	2.204	2.188	7:00 AM	4:00 PM	9:00	9	0	540	2.188	1182	
East XAD	644882	2.185	2.219	7:00 AM	4:00 PM	9:00	9	0	540	2.185	1180	
West Anasorb	799192	2.503	2.453	7:00 AM	4:00 PM	9:00	9	0	540	2.453	1325	
West XAD	644784	2.150	2.140	7:00 AM	4:00 PM	9:00	9	0	540	2.140	1156	
South Anasorb	799062	2.559	2.538	7:00 AM	4:00 PM	9:00	9	0	540	2.538	1371	
South XAD	644837	2.392	2.398	7:00 AM	4:00 PM	9:00	9	0	540	2.392	1292	
North Particulate	799941	2.673	2.668	7:00 AM	4:00 PM	9:00	9	0	540	2.668	1441	
East Particulate				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	
West Particulate				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	
South Particulate	799148	2.090	2.009	7:00 AM	4:00 PM	9:00	9	0	540	2.009	1085	
PID Calibration OK		√	JMB									
Data Ram Calibration OK		√	JMB									
South Ana Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	
South XAD Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	

GILAIR PUMP CALIBRATION

DATE: 7/30/2008

	Serial Number	AM	PM									
North Anasorb	644939	2.083	2.069	7:00 AM	4:00 PM	9:00	9	0	540	2.069	1117	
North XAD	644429	2.315	2.335	7:00 AM	4:00 PM	9:00	9	0	540	2.315	1250	
East Anasorb	799656	2.217	2.182	7:00 AM	4:00 PM	9:00	9	0	540	2.182	1178	
East XAD	644882	2.218	2.163	7:00 AM	4:00 PM	9:00	9	0	540	2.163	1168	
West Anasorb	799192	2.483	2.447	7:00 AM	4:00 PM	9:00	9	0	540	2.447	1321	
West XAD	644784	2.169	2.154	7:00 AM	4:00 PM	9:00	9	0	540	2.154	1163	
South Anasorb	799062	2.531	2.516	7:00 AM	4:00 PM	9:00	9	0	540	2.516	1359	
South XAD	644837	2.436	2.385	7:00 AM	4:00 PM	9:00	9	0	540	2.385	1288	
North Particulate	799941	2.679	2.668	7:00 AM	4:00 PM	9:00	9	0	540	2.668	1441	
East Particulate				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	
West Particulate				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	
South Particulate	799148	2.029	2.032	7:00 AM	4:00 PM	9:00	9	0	540	2.029	1096	
PID Calibration OK		√	JMB									
Data Ram Calibration OK		√	JMB									
South Ana Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	
South XAD Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	

GILAIR PUMP CALIBRATION

DATE: 7/31/2008

	Serial Number	AM	PM								
North Anasorb	799962	2.212	2.119	7:00 AM	3:00 PM	8:00	8	0	480	2.119	1017
North XAD	644882	2.169	2.068	7:00 AM	3:00 PM	8:00	8	0	480	2.370	1138
East Anasorb	799656	2.196	2.110	7:00 AM	3:00 PM	8:00	8	0	480	2.110	1013
East XAD	644429	2.370	2.232	7:00 AM	3:00 PM	8:00	8	0	480	2.232	1071
West Anasorb	799192	2.501	2.438	7:00 AM	3:00 PM	8:00	8	0	480	2.438	1170
West XAD	644784	2.163	2.132	7:00 AM	3:00 PM	8:00	8	0	480	2.132	1023
South Anasorb	799062	2.537	2.518	7:00 AM	3:00 PM	8:00	8	0	480	2.518	1209
South XAD	644837	2.397	2.435	7:00 AM	3:00 PM	8:00	8	0	480	2.397	1151
North Particulate	799941	2.656	2.646	7:00 AM	3:00 PM	8:00	8	0	480	2.646	1270
East Particulate				7:00 AM	3:00 PM	8:00	8	0	480	0.000	0
West Particulate				7:00 AM	3:00 PM	8:00	8	0	480	0.000	0
South Particulate	799148	2.094	2.005	7:00 AM	3:00 PM	8:00	8	0	480	2.005	962
PID Calibration OK		√	JMB								
Data Ram Calibration OK		√	JMB								
South Ana Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0
South XAD Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0

GILAIR PUMP CALIBRATION

DATE: 8/1/2008

	Serial Number	AM	PM									
North Anasorb	799962	2.221	2.114	7:00 AM	3:00 PM	8:00	8	0	480	2.114	1015	
North XAD	644882	2.170	2.145	7:00 AM	3:00 PM	8:00	8	0	480	2.327	1117	
East Anasorb	799656	2.199	2.096	7:00 AM	3:00 PM	8:00	8	0	480	2.096	1006	
East XAD	644429	2.327	2.258	7:00 AM	3:00 PM	8:00	8	0	480	2.258	1084	
West Anasorb	799192	2.511	2.460	7:00 AM	3:00 PM	8:00	8	0	480	2.460	1181	
West XAD	644784	2.204	2.192	7:00 AM	3:00 PM	8:00	8	0	480	2.192	1052	
South Anasorb	799062	2.512	2.514	7:00 AM	3:00 PM	8:00	8	0	480	2.512	1206	
South XAD	644837	2.457	2.433	7:00 AM	3:00 PM	8:00	8	0	480	2.433	1168	
North Particulate	799941	2.697	2.622	7:00 AM	3:00 PM	8:00	8	0	480	2.622	1259	
East Particulate				7:00 AM	3:00 PM	8:00	8	0	480	0.000	0	
West Particulate				7:00 AM	3:00 PM	8:00	8	0	480	0.000	0	
South Particulate	799148	2.047	2.022	7:00 AM	3:00 PM	8:00	8	0	480	2.022	971	
PID Calibration OK		√	JMB									
Data Ram Calibration OK		√	JMB									
South Ana Dupe	644953	2.062	2.014	7:00 AM	4:00 PM	9:00	9	0	540	2.014	1088	
South XAD Dupe				7:00 AM	4:00 PM	9:00	9	0	540	0.000	0	

GILAIR PUMP CALIBRATION

DATE: 10/6/2008

PUMP NO.	Serial Number	PAH (2L/MIN)		Initial Time	Final Time	Hours	Minutes	Minutes	(L/MIN)	(L)
		AM	PM							
North Anasorb	799958	1.467	1.484	6:30 AM	4:07 PM	9	37	577	1.467	846
North XAD	644882	2.124	2.16	6:30 AM	4:07 PM	9	37	577	2.124	1226
East Anasorb	799656	1.216	1.202	6:30 AM	4:08 AM	9	38	578	1.202	695
East XAD	644429	2.098	2.11	6:30 AM	4:08 AM	9	38	578	2.098	1213
West Anasorb	799192	1.394	1.420	6:30 AM	4:06 AM	9	36	576	1.394	803
West XAD	644784	2.056	2.080	6:30 AM	4:06 AM	9	36	576	2.056	1184
South Anasorb	799062	1.42	1.495	6:30 AM	4:05 AM	9	35	575	1.420	817
South XAD	644837	2.079	2.182	6:30 AM	4:05 AM	9	35	575	2.079	1195
North Particulate	799941	1.593	1.611	6:30 AM		9	37	577	1.593	919
East Particulate				6:30 AM		5	14	374	0.000	0
West Particulate				6:30 AM		5	14	374	0.000	0
South Particulate	761236	1.499	1.530	6:30 AM		9	35	575	1.499	862
				6:30 AM					0.000	0
South Anasorb Duplicat	799953								0.000	0
PID Calibration OK		√	JMB							
Data Ram Calibration OK		√	JMB							

30+37

GILAIR PUMP CALIBRATION

DATE: 10/7/2008

PUMP NO.	Serial Number	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Minutes	(L/MIN)	(L)
		AM	PM								
North Anasorb	799958	1.479		6:30 AM	2:30 PM	8:00	8	0	479	1.479	708
North XAD	644882	2.144		6:30 AM	2:30 PM	8:00	8	0	479	2.091	1002
East Anasorb	799656	1.205		6:30 AM	2:30 PM	8:00	8	0	479	1.205	577
East XAD	644429	2.091		6:30 AM	2:30 PM	8:00	8	0	479	2.091	1002
West Anasorb	799192	1.397		6:30 AM	2:30 PM	8:00	8	0	479	1.397	669
West XAD	644784	2.249		6:30 AM	2:30 PM	8:00	8	0	479	2.249	1077
South Anasorb	799062	1.473		6:30 AM	2:30 PM	8:00	8	0	479	1.473	706
South XAD	644837	2.151		6:30 AM	2:30 PM	8:00	8	0	479	2.151	1030
North Particulate	799941	1.585		6:30 AM	2:30 PM	8:00	8	0	479	1.585	759
East Particulate				6:30 AM	2:30 PM	8:00	8	0	479	0.000	0
West Particulate				6:30 AM	2:30 PM	8:00	8	0	479	0.000	0
South Particulate	761236	1.500		6:30 AM	2:30 PM	8:00	8	0	479	1.500	719
				6:30 AM						0.000	0
South Anasorb Duplicat	799953	1.75								1.750	0
PID Calibration OK		√	JMB								
Data Ram Calibration OK		√	JMB								

GILAIR PUMP CALIBRATION

DATE: 10/9/2008

PUMP NO.	Serial Number	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours	Minutes	Minutes	(L/MIN)	(L)
		AM	PM								
North Anasorb	799958	1.475	1.429	6:30 AM	2:30 PM	8:00	8	0	480	1.429	686
North XAD	644882	2.175	2.046	6:30 AM	2:30 PM	8:00	8	0	480	2.114	1015
East Anasorb	799656	1.211	1.216	6:30 AM	2:30 PM	8:00	8	0	480	1.211	581
East XAD	644429	2.114	2.090	6:30 AM	2:30 PM	8:00	8	0	480	2.090	1003
West Anasorb	799192	1.404	1.377	6:30 AM	2:30 PM	8:00	8	0	480	1.377	661
West XAD	644784	2.28	2.210	6:30 AM	2:30 PM	8:00	8	0	480	2.210	1061
South Anasorb	799062	1.474	1.443	6:30 AM	2:30 PM	8:00	8	0	480	1.443	693
South XAD	644837	2.144	2.118	6:30 AM	2:30 PM	8:00	8	0	480	2.118	1017
North Particulate	799941	1.600	1.560	6:30 AM	2:30 PM	8:00	8	0	480	1.560	749
East Particulate				6:30 AM	2:30 PM	8:00	8	0	480	0.000	0
West Particulate				6:30 AM	2:30 PM	8:00	8	0	480	0.000	0
South Particulate	761236	1.495	1.497	6:30 AM	2:30 PM	8:00	8	0	480	1.495	718
				6:30 AM						0.000	0
South Anasorb Duplicat	799953	1.75								1.750	0
PID Calibration OK		√	JMB								
Data Ram Calibration OK		√	JMB				480				

GilAir Pump Calibration

Date: 08-2⁶~~5~~-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.432	1.345	6:30 AM	3:01 PM	8:31	8
North XAD	644882	2.137	2.075	6:30 AM	3:01 PM	8:31	8
East Anasorb	799656	1.328	1.304	6:30 AM	3:04 PM	8:34	8
East XAD	644429	2.192	2.181	6:30 AM	3:04 PM	8:34	8
West Anasorb	799192	1.375	1.374	6:30 AM	3:01 PM	8:31	8
West XAD	644784	2.24	2.05	6:30 AM	3:01 PM	8:31	8
South Anasorb	799062	1.484	1.433	6:30 AM	3:00 PM	8:30	8
South XAD	644837	2.377	2.396	6:30 AM	3:00 PM	8:30	8
North Particulate	799941	1.602	1.557	6:30 AM	3:01 PM	8:31	8
East Particulate				6:30 AM			
West Particulate				6:30 AM			
South Particulate	761236	1.493	1.482	6:30 AM	3:00 PM	8:30	8
South Anasorb Duplca	799953			6:30		8:40	8
PID Calibration OK		√	JDH				
Data Ram Calibration OK		√	JDH				

Minutes	Minutes	(L/MIN)	(L)
52	532	1.382	735
52	532	2.156	1147
57	537	1.334	716
57	537	2.206	1185
46	526	1.336	703
46	526	2.255	1186
40	520	1.478	769
40	520	2.390	1243
52	532	1.565	833
		0.000	0
		0.000	0
42	522	1.498	782
40	520	1.739	904

GilAir Pump Calibration

Date: 08-27-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.439	1.424	6:30 AM	3:08 PM	8:38	8
North XAD	644882	2.077	2.033	6:30 AM	3:08 PM	8:38	8
East Anasorb	799656	1.495	1.459	6:30 AM	3:10 PM	8:40	8
East XAD	644429	2.186	2.123	6:30 AM	3:10 PM	8:40	8
West Anasorb	799192	1.379	1.367	6:30 AM	3:04 PM	8:34	8
West XAD	644784	2.31	2.329	6:30 AM	3:04 PM	8:34	8
South Anasorb	799062	1.501	1.493	6:30 AM	3:06 PM	8:36	8
South XAD	644837	2.391	2.347	6:30 AM	3:06 PM	8:36	8
North Particulate	799941	1.599	1.555	6:30 AM	3:08 PM	8:38	8
East Particulate				6:30 AM			
West Particulate				6:30 AM			
South Particulate	761236	1.496	1.482	6:30 AM	3:06 PM	8:36	8
South Anasorb Duplicate	799953			6:30		8:40	8
PID Calibration OK	√		JDH				
Data Ram Calibration OK	√		JDH				

Minutes	Minutes	(L/MIN)	(L)
38	518	1.424	738
38	518	2.033	1053
40	520	1.459	759
40	520	2.123	1104
34	514	1.367	703
34	514	2.310	1187
36	516	1.493	770
36	516	2.347	1211
38	518	1.555	805
		0.000	0
		0.000	0
36	516	1.482	765
	520	0.000	0

GilAir Pump Calibration

Date: 08-28-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time
		AM	PM		
North Anasorb	799958	1.498	1.422	6:30 AM	11:23 AM
North XAD	644882	2.193	2.025	6:30 AM	11:23 AM
East Anasorb	799656	1.59	1.51	6:30 AM	11:26 AM
East XAD	644429	2.393	2.184	6:30 AM	11:26 AM
West Anasorb	799192	1.402	1.375	6:30 AM	11:20 AM
West XAD	644784	2.42	2.28	6:30 AM	11:20 AM
South Anasorb	799062	1.308	1.29	6:30 AM	11:15 AM
South XAD	644837	2.301	2.293	6:30 AM	11:15 AM
North Particulate	799941	1.49	1.459	6:30 AM	11:23 AM
East Particulate				6:30 AM	
West Particulate				6:30 AM	
South Particulate	761236	1.53	1.494	6:30 AM	11:15 AM
South Anasorb Duplicate	799953			6:30	
PID Calibration OK		√			JDH
Data Ram Calibration OK		√			JDH

Pulled early due to rain.

Duration	Hours	Minutes	Minutes	(L/MIN)	(L)
5:53	5	53	293	1.422	417
5:53	5	53	293	2.025	593
5:56	5	56	296	1.510	447
5:56	5	56	296	2.184	646
5:50	5	50	290	1.375	399
5:50	5	50	290	2.280	661
5:45	5	45	285	1.290	368
5:45	5	45	285	2.293	654
5:53	5	53	293	1.459	427
				0.000	0
				0.000	0
5:45	5	45	285	1.494	426
	8		520	0.000	0

GilAir Pump Calibration

Date: 08-29-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.411	1.384	5:30 AM	11:35 AM	6:05	6
North XAD	644882	2.022	2.01	5:30 AM	11:35 AM	6:05	6
East Anasorb	799656	1.394	1.22	5:30 AM	11:32 AM	6:02	6
East XAD	644429	2.159	2.078	5:30 AM	11:32 AM	6:02	6
West Anasorb	799192	1.358	1.328	5:30 AM	11:37 AM	6:07	6
West XAD	644784	2.333	2.189	5:30 AM	11:37 AM	6:07	6
South Anasorb	799062	1.292	1.111	5:30 AM	11:40 AM	6:10	6
South XAD	644837	2.494	2.168	5:30	11:40 AM	6:10	6
North Particulate	799941	1.494	1.38	5:30 AM	11:35 AM	6:05	6
East Particulate				5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.32	1.22	5:30 AM	11:40 AM	6:10	6
South Anasorb Duplicate	799953			6:30			8
PID Calibration OK	√		JDH				
Data Ram Calibration OK	√		JDH				

Minutes	Minutes	(L/MIN)	(L)
5	365	1.384	505
5	365	2.010	734
2	362	1.220	442
2	362	2.078	752
7	367	1.328	487
7	367	2.189	803
10	370	1.111	411
10	370	2.168	802
5	365	1.380	504
		0.000	0
		0.000	0
10	370	1.220	451
	520	0.000	0

GilAir Pump Calibration

Date: 09-02-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.433	1.392	6:30 AM	3:10 PM	8:10	8
North XAD	644882	2.049	2.012	6:30 AM	3:10 PM	8:10	8
East Anasorb	799656	1.495	1.44	6:30 AM	3:13 PM	8:13	8
East XAD	644429	2.494	2.42	6:30 AM	3:13 PM	8:13	8
West Anasorb	799192	1.204	1.193	6:30 AM	3:11 PM	8:11	8
West XAD	644784	2.02	1.999	6:30 AM	3:11 PM	8:11	8
South Anasorb	799062	1.2	1.201	6:30 AM	3:17 PM	8:17	8
South XAD	644837	2.493	2.491	6:30	3:17 PM	8:17	8
North Particulate	799941	1.488	1.3	6:30 AM	3:10 PM	8:10	8
East Particulate				5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.28	1.203	6:30 AM	3:17 PM	8:17	8
South Anasorb Duplca	799953	1.394	1.022	6:30	3:13 PM	8:13	8
OSL		1.79	1.695	6:30 AM	3:20 PM	8:20	8
PID Calibriation OK	√		JDH				
Data Ram Calibration OK	√		JDH				

Minutes	Minutes	(L/MIN)	(L)
10	510	1.392	710
10	510	2.012	1026
13	513	1.440	739
13	513	2.420	1241
11	511	1.193	610
11	511	1.999	1021
17	517	1.200	620
17	517	2.491	1288
10	510	1.300	663
		0.000	0
		0.000	0
17	517	1.203	622
15	517	1.022	528
20	520	1.695	881

GilAir Pump Calibration

Date: 09-03-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.493	1.43	6:30 AM	3:08 PM	8:38	8
North XAD	644882	2.111	2.103	6:30 AM	3:08 PM	8:38	8
East Anasorb	799656	1.359	1.204	6:30 AM	3:17 PM	8:47	8
East XAD	644429	2.507	2.478	6:30 AM	3:17 PM	8:47	8
West Anasorb	799192	1.203	1.199	6:30 AM	3:10 PM	8:40	8
West XAD	644784	2.11	2.013	6:30 AM	3:10 PM	8:40	8
South Anasorb	799062	1.43	1.23	6:30 AM	3:13 PM	8:43	8
South XAD	644837	2.286	2.06	6:30	3:13 PM	8:43	8
North Particulate	799941	1.395	1.283	6:30 AM	3:08 PM	8:38	8
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.23	1.111	6:30 AM	3:13 PM	8:43	8
East Xad Duplicate	799953	1.501		6:30	3:17 PM	8:47	8
OSL				6:30 AM	3:20 PM	8:20	8
PID Calibration OK	√		JDH				
Data Ram Calibration OK	√		JDH				

Minutes	Minutes	(L/MIN)	(L)
38	518	1.430	741
38	518	2.103	1089
47	527	1.204	635
47	527	2.478	1306
40	520	1.199	623
40	520	2.013	1047
43	523	1.230	643
43	523	2.060	1077
38	518	1.283	665
		0.000	0
		0.000	0
43	523	1.111	581
47	527	1.501	791
20	520	0.000	0

NO SAMPLING DUE TO RAIN EVENT

REAL TIME MONITORING CONTINUED BOTH ON AND OFFSITE.

NO SAMPLING DUE TO RAIN EVENT

REAL TIME MONITORING CONTINUED BOTH ON AND OFFSITE.

GilAir Pump Calibration

Date: 09-08-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.25	1.463	6:30 AM	12:07 PM	5:37	5
North XAD	644882	2.039	2.033	6:30 AM	12:07 PM	5:37	5
East Anasorb	799656	1.29	1.201	6:30 AM	12:10 PM	5:40	5
East XAD	644429	2.1	2.01	6:30 AM	12:10 PM	5:40	5
West Anasorb	799192	1.293	1.292	6:30 AM	12:04 PM	5:34	5
West XAD	644784	2.103	2.033	6:30 AM	12:04 PM	5:34	5
South Anasorb	799062	1.95	1.3	6:30 AM	12:02 PM	5:32	5
South XAD	644837	2.192	2.1	6:30 AM	12:02 PM	5:32	5
North Particulate	799941	1.593	1.394	6:30 AM	12:07 PM	5:37	5
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.39	1.11	6:30 AM	12:02 PM	5:32	5
Dupe West Xad	799953	1.455	1.09	6:30 AM	12:04 PM	5:34	5
OSL							
PID Calibration OK		√	JDH				
Data Ram Calibration OK		√	JDH				

Pulled samples at noon due to rain event.

Minutes	Minutes	(L/MIN)	(L)
7	307	1.250	384
7	307	2.033	624
10	310	1.201	372
10	310	2.010	623
4	304	1.292	393
4	304	2.033	618
2	302	1.300	393
2	302	2.100	634
7	307	1.394	428
		0.000	0
		0.000	0
2	302	1.110	335
4	610	1.090	665
		0.000	0

GilAir Pump Calibration

Date: 09-09-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.393	1.292	6:30 AM	4:34 PM	10:04	10
North XAD	644882	2.043	2.02	6:30 AM	4:34 PM	10:04	10
East Anasorb	799656	1.345	1.304	6:30 AM	4:32 PM	10:02	10
East XAD	644429	2.1	1.93	6:30 AM	4:32 PM	10:02	10
West Anasorb	799192	1.248	1.05	6:30 AM	4:06 PM	10:06	10
West XAD	644784	2.12	2.009	6:30 AM	4:06 PM	10:06	10
South Anasorb	799062	1.49	1.19	6:30 AM	4:00 PM	10:00	10
South XAD	644837	2.1	2.13	6:30 AM	4:00 PM	10:00	10
North Particulate	799941	1.593	1.394	6:30 AM	4:34 AM	10:04	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.39	1.11	6:30 AM	4:30 AM	10:00	10
Dupe East Ana OSL	799953	1.599	1.598	6:30 AM	4:02 PM	10:02	10
PID Calibration OK		√	JDH				
Data Ram Calibration OK		√	JDH				

Minutes	Minutes	(L/MIN)	(L)
4	604	1.292	780
4	604	2.020	1220
2	602	1.304	785
2	602	1.930	1162
6	606	1.050	636
6	606	2.009	1217
0	600	1.190	714
0	600	2.130	1278
4	604	1.389	839
		0.000	0
		0.000	0
0	600	1.054	632
2	602	1.598	962
		0.000	0

GilAir Pump Calibration

Date: 09-10-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.25	1.103	6:30 AM	4:36 PM	10:06	10
North XAD	644882	2.039	2.033	6:30 AM	4:36 PM	10:06	10
East Anasorb	799656	1.29	1.201	6:30 AM	4:34 PM	10:04	10
East XAD	644429	2.1	2.01	6:30 AM	4:34 PM	10:04	10
West Anasorb	799192	1.293	1.292	6:30 AM	4:38 PM	10:08	10
West XAD	644784	2.103	2.033	6:30 AM	4:38 PM	10:08	10
South Anasorb	799062	1.95	1.3	6:30 AM	4:40 PM	10:10	10
South XAD	644837	2.192	2.1	6:30 AM	4:40 PM	10:10	10
North Particulate	799941	1.593	1.394	6:30 AM	4:36 PM	10:06	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.39	1.11	6:30 AM	4:40 PM	10:10	10
South Anasorb Duplicate	799953	1.455	1.09	6:30 AM	4:40 PM	10:10	10
OSL							
PID Calibration OK		√	JDH				
Data Ram Calibration OK		√	JDH				

Minutes	Minutes	(L/MIN)	(L)
6	606	1.103	668
6	606	2.033	1232
4	604	1.201	725
4	604	2.010	1214
8	608	1.292	786
8	608	2.033	1236
10	610	1.300	793
10	610	2.100	1281
6	606	1.394	845
		0.000	0
		0.000	0
10	610	1.110	677
10	610	1.090	665
		0.000	0

GilAir Pump Calibration

Date: 09-11-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	AM				
North Anasorb	799958	1.204	1.199	6:30 AM	4:32 PM	10:02	10
North XAD	644882	2.102	2.099	6:30 AM	4:32 PM	10:02	10
East Anasorb	799656	1.39	1.204	6:30 AM	4:30 PM	10:00	10
East XAD	644429	2.05	2.043	6:30 AM	4:30 PM	10:00	10
West Anasorb	799192	1.294	1.23	6:30 AM	4:34 PM	10:04	10
West XAD	644784	2.043	2.025	6:30 AM	4:34 PM	10:04	10
South Anasorb	799062	2.11	2.095	6:30 AM	4:36 PM	10:06	10
South XAD	644837	2.56	2.302	6:30 AM	4:36 PM	10:06	10
North Particulate	799941	1.67	1.506	6:30 AM	4:32 PM	10:02	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.09	1.05	6:30 AM	4:36 PM	10:06	10
South Anasorb Duplicate	799953	1.304	1.293	6:30 AM	4:36 PM	10:06	10
OSL							
PID Calibration OK		√		JDH			
Data Ram Calibration OK		√		JDH			

Minutes	Minutes	(L/MIN)	(L)
2	602	1.199	722
2	602	2.099	1264
0	600	1.204	722
0	600	2.043	1226
4	604	1.230	743
4	604	2.025	1223
6	606	2.095	1270
6	606	2.302	1395
2	602	1.506	907
		0.000	0
		0.000	0
6	606	1.050	636
6	606	1.293	784
		0.000	0

GilAir Pump Calibration

Date: 09-12-08

No air monitoring today due to rain event.

GilAir Pump Calibration

Date: 09-15-08

No air monitoring today due to flood event.

GilAir Pump Calibration

Date: 09-16-08

No air monitoring today due to flood event.

GilAir Pump Calibration

Date: 09-17-08

No air monitoring today due to flood event.

GilAir Pump Calibration

Date: 09-18-08

No calibrating today due to flood event-real time continued.

GilAir Pump Calibration

Date: 09-19-08

No calibrating today due to flood event-real time continued.

GIIAir Pump Calibration

Date: 09-22-08

No calibrating today due to flood event-real time continued.

GiAir Pump Calibration

Date: 09-23-08

No calibrating today due to flood event-real time continued.

GilAir Pump Calibration

Date: 09-24-08

No calibrating today due to flood event-real time continued.

GilAir Pump Calibration

Date: 09-25-08

PUMP NO.	Serial Num	AM	PAH (2L/MIN)	Initial Time	Final Time	Duration	Hours
North Anasorb	799958		1.203	1.102	6:30 AM	4:32 PM	10:02
North XAD	644882		2.022	2.019	6:30 AM	4:32 PM	10:02
East Anasorb	799656		2.9	2.89	6:30 AM	4:30 PM	10:00
East XAD	644429		2.2	2.11	6:30 AM	4:30 PM	10:00
West Anasorb	799192		1.302	1.204	6:30 AM	4:34 PM	10:04
West XAD	644784		2.056	2.028	6:30 AM	4:34 PM	10:04
South Anasorb	799062		2.44	2.035	6:30 AM	4:36 PM	10:06
South XAD	644837		2.35	2.022	6:30 AM	4:36 PM	10:06
North Particulate	799941		1.449	1.39	6:30 AM	4:32 PM	10:02
East Particulate			0		5:30 AM		
West Particulate					5:30 AM		
South Particulate	761236		1.02	1.012	6:30 AM	4:36 PM	10:06
East Anasorb Duplicat	799953		1.39	1.32	6:30 AM	4:36 PM	10:06
OSL							
PID Calibriation OK		√		JDH			
Data Ram Calibration OK		√		JDH			

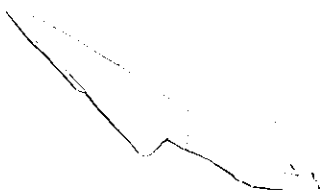
Minutes	Minutes	(L/MIN)	(L)
	602	1.102	663
	602	2.019	1215
	600	2.890	1734
	600	2.110	1266
	604	1.204	727
	604	2.028	1225
	606	2.035	1233
	606	2.022	1225
	602	1.390	837
		0.000	0
		0.000	0
	606	1.012	613
	606	1.320	800
		0.000	0

GilAir Pump Calibration

Date: 09-26-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
North Anasorb	799958	1.303	1.033	6:30 AM	4:34 PM	10:02	10
North XAD	644882	2.043	2.012	6:30 AM	4:34 PM	10:02	10
East Anasorb	799656	2.504	2.397	6:30 AM	4:30 PM	10:00	10
East XAD	644429	2.011	2.007	6:30 AM	4:30 PM	10:00	10
West Anasorb	799192	1.29	1.03	6:30 AM	4:36 PM	10:04	10
West XAD	644784	2.59	2.04	6:30 AM	4:36 PM	10:04	10
South Anasorb	799062	2.5	2.349	6:30 AM	4:38 PM	10:06	10
South XAD	644837	2.23	2.03	6:30 AM	4:38 PM	10:06	10
North Particulate	799941	1.38	1.2	6:30 AM	4:34 PM	10:02	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.23	1.05	6:30 AM	4:36 PM	10:06	10
South Ana Dupe	799953	1.43	1.286	6:30 AM	4:38 PM	10:06	10
OSL							
PID Calibration OK	√		JDH				
Data Ram Calibration OK	√		JDH				

Minutes	Minutes	(L/MIN)	(L)
	604	1.033	624
	604	2.012	1215
	600	2.397	1438
	600	2.007	1204
	606	1.030	624
	606	2.040	1236
	608	2.349	1428
	608	2.030	1234
	604	1.200	725
		0.000	0
		0.000	0
	606	1.050	636
	606	1.286	779
		0.000	0



GilAir Pump Calibration

Date: 09-30-08

PUMP NO.	Serial Num	PAH (2L/MIN)	AM	Initial Time	Final Time	Duration	Hours
North Anasorb	799958	1.304	1.103	6:30 AM	4:39 PM	10:02	10
North XAD	644882	2.034	2.031	6:30 AM	4:39 PM	10:02	10
East Anasorb	799656	2.499	2.033	6:30 AM	4:37 PM	10:00	10
East XAD	644429	2.4	2.294	6:30 AM	4:37 PM	10:00	10
West Anasorb	799192	1.08	1.02	6:30 AM	4:36 PM	10:04	10
West XAD	644784	2.604	2.38	6:30 AM	4:36 PM	10:04	10
South Anasorb	799062	2.5	2.14	6:30 AM	4:34 PM	10:06	10
South XAD	644837	2.649	2.4	6:30 AM	4:34 PM	10:06	10
North Particulate	799941	1.47	1.31	6:30 AM	4:39 PM	10:02	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.69	1.3	6:30 AM	4:34 PM	10:06	10
South XAD Dupe	799953	1.403	1.34	6:30 AM	4:34 PM	10:06	10
OSL							
PID Calibration OK		√	JDH				
Data Ram Calibration OK		√	JDH				

Minutes	Minutes	(L/MIN)	(L)
	602	1.059	638
	602	2.040	1228
	600	2.500	1500
	600	2.039	1223
	604	1.050	634
	604	2.390	1444
	607	2.239	1359
	607	2.180	1323
	602	1.330	801
		0.000	0
		0.000	0
	607	1.042	632
	607	1.403	852
		0.000	0

GilAir Pump Calibration

Date: 09-29-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM					
North Anasorb	799958	1.293	1.059	6:30 AM	4:32 PM	10:02	10
North XAD	644882	2.04	2.076	6:30 AM	4:32 PM	10:02	10
East Anasorb	799656	2.5	2.695	6:30 AM	4:30 PM	10:00	10
East XAD	644429	2.039	2.104	6:30 AM	4:30 PM	10:00	10
West Anasorb	799192	1.205	1.05	6:30 AM	4:34 PM	10:04	10
West XAD	644784	2.52	2.39	6:30 AM	4:34 PM	10:04	10
South Anasorb	799062	2.53	2.239	6:30 AM	4:37 PM	10:06	10
South XAD	644837	2.305	2.18	6:30 AM	4:37 PM	10:06	10
North Particulate	799941	1.59	1.33	6:30 AM	4:32 PM	10:02	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.4	1.042	6:30 AM	4:37 PM	10:06	10
South Ana Dupe	799953	1.403	1.41	6:30 AM	4:37 PM	10:06	10
OSL							
PID Calibration OK		√		JDH			
Data Ram Calibration OK		√		JDH			

Minutes	Minutes	(L/MIN)	(L)
	609	1.103	672
	609	2.031	1237
	607	2.033	1234
	607	2.294	1392
	606	1.020	618
	606	2.380	1442
	604	2.140	1293
	604	2.400	1450
	609	1.310	798
		0.000	0
		0.000	0
	606	1.300	788
	606	1.340	812
		0.000	0

GilAir Pump Calibration

Date: 10-01-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM					
North Anasorb	799958	1.34	1.239	6:30 AM	11:22 AM	10:02	10
North XAD	644882	2.3	2.032	6:30 AM	11:22 AM	10:02	10
East Anasorb	799656	2.34	2.29	6:30 AM	11:20 AM	10:00	10
East XAD	644429	2.329	2.14	6:30 AM	11:20 AM	10:00	10
West Anasorb	799192	1.34	1.022	6:30 AM	11:27 AM	10:04	10
West XAD	644784	2.5	2.49	6:30 AM	11:27 AM	10:04	10
South Anasorb	799062	2.4	2.2	6:30 AM	11:29 AM	10:06	10
South XAD	644837	2.59	2.44	6:30 AM	11:29 AM	10:06	10
North Particulate	799941	1.3	1.24	6:30 AM	11:22 AM	10:02	10
East Particulate		0		5:30 AM			
West Particulate				5:30 AM			
South Particulate	761236	1.49	1.3	6:30 AM	11:29 AM	10:06	10
South XAD Dupe	799953	1.3	1.23	6:30 AM	11:29 AM	10:06	10
OSL							
PID Calibration OK		√	JDH				
Data Ram Calibration OK		√	JDH				

Minutes	Minutes	(L/MIN)	(L)
	292	1.239	362
	292	2.032	593
	290	2.290	664
	290	2.140	621
	297	1.022	304
	297	2.490	740
	299	2.200	658
	299	2.440	730
	292	1.240	362
		0.000	0
		0.000	0
	299	1.300	389
	299	1.230	368
		0.000	0

GilAir Pump Calibration

Date: 10-02-08

PUMP NO.	Serial Num	PAH (2L/MIN)		Initial Time	Final Time	Duration	Hours
		AM	PM				
North Anasorb	799958	1.405	1.303	6:30 AM	4:38 PM	8:38	8
North XAD	644882	2.077	2.033	6:30 AM	4:38 PM	8:38	8
East Anasorb	799656	1.522	1.304	6:30 AM	4:36 PM	8:40	8
East XAD	644429	2.384	2.102	6:30 AM	4:36 PM	8:40	8
West Anasorb	799192	1.403	1.322	6:30 AM	4:32 PM	8:34	8
West XAD	644784	2.5	2.199	6:30 AM	4:32 PM	8:34	8
South Anasorb	799062	1.555	1.403	6:30 AM	4:30 PM	8:36	8
South XAD	644837	2.503	2.22	6:30 AM	4:30 PM	8:36	8
North Particulate	799941	1.503	1.41	6:30 AM	4:38 PM	8:38	8
East Particulate				6:30 AM			
West Particulate				6:30 AM			
South Particulate	761236	1.34	1.31	6:30 AM	4:30 PM	8:36	8
South Anasorb Duplicate	799953	1.421	1.392	6:30	4:30 PM	8:40	8
PID Calibration OK	√		JDH				
Data Ram Calibration OK	√		JDH				

Minutes	Minutes	(L/MIN)	(L)
38	608	1.303	792
38	608	2.033	1236
40	606	1.304	790
40	606	2.102	1274
34	604	1.322	798
34	604	2.199	1328
36	600	1.403	842
36	600	2.220	1332
38	608	1.410	857
		0.000	0
		0.000	0
36	600	1.310	786
	600	1.392	835

EQUIPMENT CALIBRATION LOG

Project: Hammond MGP Site
 Location: Hammond IN
 Model Name: photocheck +
 Model Number: 1000 Serial Number: V.00046
 Cal. Standards: 100 PPM Isobutylene
 On Site Meeting Called? / Date: _____

Date	Time	Calibration Standard	Calibration Gas Value	Calibration Result	Calibrated by
7/10/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/11/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/15/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/16/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/17/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/18/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/21/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/22/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/23/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/24/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
7/25/08	8:00	Isobutylene	100 ppm	100 ppm	G.M.
10-2-08	6:00	ISO	100 ppm	100	J.B.
10-6-08	7:00	ISO	100 ppm	100	J.B.
10-7-08	7:00	ISO	100 ppm	100	J.B.
10-9-08	6:45	ISO	100 ppm	100	J.B.

Other Comments: _____

EQUIPMENT CALIBRATION LOG

Project: Hammond IN Ground Remedial Action
 Location: Hammond IN
 Model Name: phocheck+
 Model Number: 1000 Serial Number: V0046
 Cal. Standards: 100ppm Isobutylene
 On Site Meeting Called? / Date: _____

Date	Time	Calibration Standard	Calibration Gas Value	Calibration Result	Calibrated by
7/28/08	15:30	100ppm Isobut	100ppm	100	J.B.
7/29/08	8:30	Isobut	100ppm	100	J.B.
7/30/08	8:30	Isobut	100ppm	100	J.B.
7/31/08	8:30	Isobut	100ppm	100	J.B.
8/1/08	12:00	Isobut	100ppm	100	J.B.
8/2/08	8:30	Isobut	100ppm	100	J.B.
8/4/08	8:00	Isobut	100ppm	100	J.B.
8/10/08	8:18	Isobut.	100ppm	100	J.B.
8/16/08	9:00	Isobut	100ppm	100	J.B.
8/18/08	7:00	Isobut	100ppm	100	J.B.
8/19/08	8:00	Isobut	100ppm	100	J.B.
8/20/08	7:15	Isobut	100ppm	100	J.B.
8/21/08	7:08	Isobut	100ppm	100	J.B.
8/21/08	7:00	Isobut	100ppm	100	J.B.
8/25/08	7:30	Isobut	100ppm	100	J.B.
8/28/08	8:00	Isobut	100ppm	100	J.B.
8/29/08	8:00	Isobut	100ppm	100	J.B.
8/29/08	7:00	Isobut	100ppm	100	J.B.
8/21/08	7:05	Isobut	100ppm	100	J.B.
8/29/08	7:00	Isobut	100ppm	100	J.R.
8/25/08	7:50	Isobut	100ppm	100	J.B.
8/26/08	7:00	Isobut	100ppm	100	JDH

Other Comments: _____

EQUIPMENT CALIBRATION LOG

Project: Hammond IN Upland Remedial Action
 Location: Hammond, IN
 Model Name: Procheck 7
 Model Number: 1000 Serial Number: U... 46
 Cal. Standards: 100ppm 150b-felyre
 On Site Meeting Called? / Date: _____

Date	Time	Calibration Standard	Calibration Gas Value	Calibration Result	Calibrated by
8-27-08	7:05	150but	100ppm	100	JDH
8-28-08	7:06	150but	100ppm	100	JDH
8-29-08	6:55	150	100ppm	100	JDH
9-02-08	6:54	150	100ppm	100	JDH
9-3-08	7:00	150	100ppm	100	JDH
9-4-08	8:30	150	100ppm	100	JDH
9-5-08	7:00	150	100ppm	100	JDH
9-8-08	7:00	150	100ppm	100	JDH
9-9-08	6:45	150	100ppm	100	JDH
9-10-08	6:37	150	100ppm	100	JDH
9-11-08	6:35	150	100ppm	100	JDH
9-12-08	6:30	150	100ppm	100	JDH
9-17-08	6:00	150	100ppm	100	JDH
9-18-08	8:00	150	100ppm	100	JDH
9-22-08	6:00	150 BUT	100ppm	100	JDH
9-23-08	6:05	150	100ppm	100	JDH
9-24-08	6:05	150	100ppm	100	JDH
9-25-08	6:00	150	100ppm	100	JDH
9-26-08	6:00	150	100ppm	100	JDH
9-29-08	6:00	150	100ppm	100	JDH
9-30-08	5:45	150	100ppm	100	JDH
10-1-08	5:50	150	100ppm	100	JDH

Other Comments: _____

APPENDIX C

Real-Time Monitoring Data

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 10/25/07

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
NW	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.004	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	15:45	0.000	0.000	0.0	0
	AVERAGE	0.001	0.000	0.0	0.0
NE	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	15:30	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
SW	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	1.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.1	0.0
SE	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.003	0.000	0.0	0
	13:00	0.050	0.000	0.0	0
	14:00	0.011	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.007	0.0	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
 Dust readings measured with personal data ram
 Benzene measured with a Drager Chip set measurement system
 Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 10-26-07

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
NW	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	12:45	0.000	0.000	0.0	0
	13:10	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
NE	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	12:45	0.000	0.000	0.0	0
	13:20	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	12:45	0.000	0.000	0.0	0
	1:05	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SE	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0	0.000	0.0	0
	12:45	0.000	0.000	0.0	0
	13:15	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 10-29-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:07	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	15:30	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
NE	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:05	0.000	0.000	0.0	0
	12:10	0.000	0.000	0.0	0
	13:05	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	15:30	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:02	0.010	0.000	0.0	0
	12:05	0.000	0.000	0.0	0
	13:02	0.002	0.000	0.0	0
	14:06	0.000	0.000	0.0	0
	15:02	0.000	0.000	0.0	0
	15:30	0.000	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0
SE	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:04	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	15:30	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 10-30-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	12:45	0.000	0.000	0.0	0
	13:45	0.000	0.000	0.0	0
	14:45	0.000	0.000	0.0	0
	15:45	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
NE	7:30	0.000	0.000	0.0	0
	8:30	0.000	0.000	0.0	0
	9:30	0.000	0.000	0.0	0
	10:30	0.000	0.000	0.0	0
	11:30	0.000	0.000	0.0	0
	12:30	0.000	0.000	0.0	0
	13:30	0.000	0.000	0.0	0
	14:30	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
SW	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	12:45	0.000	0.000	0.0	0
	13:45	0.000	0.000	0.0	0
	14:45	0.000	0.000	0.0	0
	15:45	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
SE	7:30	0.000	0.000	0.0	0
	8:30	0.000	0.000	0.0	0
	9:30	0.000	0.000	0.0	0
	10:30	0.000	0.000	0.0	0
	11:30	0	0.000	0.0	0
	12:30	0.000	0.000	0.0	0
	13:30	0.000	0.000	0.0	0
	14:30	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 10-31-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	13:05	0.016	0.000	0.0	0
	14:05	0.000	0.000	0.0	0
	15:05	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE		0.002	0.000	0.0
NE	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:10	0.000	0.000	0.0	0
	14:10	0.000	0.000	0.0	0
	15:10	0.000	0.000	0.0	0
	16:10	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	7:45	0.000	0.000	0.0	0
	8:45	0.000	0.000	0.0	0
	9:45	0.000	0.000	0.0	0
	10:45	0.000	0.000	0.0	0
	11:45	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SE	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-15-08

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
North	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
East	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
West	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
South	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 11-2-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
NE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 11-5-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.020	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.010	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.003	0.000	0.0
NE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.042	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.005	0.000	0.0
SW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.013	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.010	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.003	0.000	0.0
SE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 11-6-07

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
NW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.017	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.009	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.003	0.000	0.0
NE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.016	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.002	0.000	0.0
SW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.046	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.005	0.000	0.0
SE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.017	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.002	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 11-7-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
NE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 11-8-07

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
NW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
NE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 11-9-07

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
NW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
NE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SW	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
SE	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-24-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-25-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)	
N	7:00	0.000	0.000	0.0	0	
	8:00	0.000	0.000	0.0	0	
	9:00	0.000	0.000	0.0	0	
	10:00	0.000	0.000	0.0	0	
	11:00	0.000	0.000	0.0	0	
	12:00	0.000	0.000	0.0	0	
	13:00	0.000	0.000	0.0	0	
	14:00	0.000	0.000	0.0	0	
	15:00	0.000	0.000	0.0	0	
	AVERAGE		0.000	0.000	0.0	0.0
	E	7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
13:00		0.000	0.000	0.0	0	
14:00		0.000	0.000	0.0	0	
15:00		0.000	0.000	0.0	0	
AVERAGE			0.000	0.000	0.0	0.0
W		7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0	
	14:00	0.000	0.000	0.0	0	
	15:00	0.000	0.000	0.0	0	
	AVERAGE		0.000	0.000	0.0	0.0
	S	7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
13:00		0.000	0.000	0.0	0	
14:00		0.000	0.000	0.0	0	
15:00		0.000	0.000	0.0	0	
AVERAGE			0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-28-08

Site	Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N		7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.000	0.000	0.0	0
		14:00	0.000	0.000	0.0	0
		15:00	0.000	0.000	0.0	0
		AVERAGE		0.000	0.000	0.0
E		7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.000	0.000	0.0	0
		14:00	0.000	0.000	0.0	0
		15:00	0.000	0.000	0.0	0
		AVERAGE		0.000	0.000	0.0
W		7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.000	0.000	0.0	0
		14:00	0.000	0.000	0.0	0
		15:00	0.000	0.000	0.0	0
		AVERAGE		0.000	0.000	0.0
S		7:00	0.000	0.000	0.0	0
		8:00	0.000	0.000	0.0	0
		9:00	0.000	0.000	0.0	0
		10:00	0.000	0.000	0.0	0
		11:00	0.000	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.000	0.000	0.0	0
		14:00	0.000	0.000	0.0	0
		15:00	0.000	0.000	0.0	0
		AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-29-08

Site	Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N		7:00	0.000	0.000	0.0	0
		8:00	0.055	0.000	0.0	0
		9:00	0.060	0.000	0.0	0
		10:00	0.045	0.000	0.0	0
		11:00	0.033	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.005	0.000	0.0	0
		14:00	0.004	0.000	0.0	0
		15:00	0.021	0.000	0.0	0
		AVERAGE		0.025	0.000	0.0
E		7:00	0.000	0.000	0.0	0
		8:00	0.062	0.000	0.0	0
		9:00	0.047	0.000	0.0	0
		10:00	0.045	0.000	0.0	0
		11:00	0.033	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.012	0.000	0.0	0
		14:00	0.020	0.000	0.0	0
		15:00	0.005	0.000	0.0	0
		AVERAGE		0.025	0.000	0.0
W		7:00	0.000	0.000	0.0	0
		8:00	0.037	0.000	0.0	0
		9:00	0.040	0.000	0.0	0
		10:00	0.060	0.000	0.0	0
		11:00	0.030	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.000	0.000	0.0	0
		14:00	0.006	0.000	0.0	0
		15:00	0.000	0.000	0.0	0
		AVERAGE		0.019	0.000	0.0
S		7:00	0.000	0.000	0.0	0
		8:00	0.032	0.000	0.0	0
		9:00	0.044	0.000	0.0	0
		10:00	0.040	0.000	0.0	0
		11:00	0.016	0.000	0.0	0
		12:00	0.000	0.000	0.0	0
		13:00	0.000	0.000	0.0	0
		14:00	0.001	0.000	0.0	0
		15:00	0.009	0.000	0.0	0
		AVERAGE		0.016	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-30-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.005	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.006	0.000	0.0	0
	14:00	0.004	0.000	0.0	0
	15:00	0.002	0.000	0.0	0
	AVERAGE		0.002	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.003	0.000	0.0	0
	14:00	0.002	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.007	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.001	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.003	0.000	0.0	0
	14:00	0.001	0.000	0.0	0
	15:00	0.002	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 07-31-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.006	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 08-01-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.006	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 08-02-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.006	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.001	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.020	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.002	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
 Dust readings measured with personal data ram
 Benzene measured with a Drager Chip set measurement system
 Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 08-06-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 08-07-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 08-08-08

Site					
Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.025	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.003	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID
- Dust readings measured with personal data ram
- Benzene measured with a Drager Chip set measurement system
- Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-11-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.010	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.017	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.014	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.003	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.025	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.003	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.078	0.000	0.0	0
	11:00	0.010	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.010	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.011	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-12-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.010	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.005	0.000	0.0	0
	11:00	0.031	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.002	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.005	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.012	0.000	0.0	0
	11:00	0.012	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.044	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.008	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.003	0.000	0.0	0
	11:00	0.005	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.005	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.004	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.006	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-13-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.011	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.016	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.002	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.010	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.004	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-14-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-15-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-18-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-19-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-20-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.028	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.003	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.007	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-21-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.014	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.002	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.012	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.028	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.004	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-22-08

Site	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.012	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.013	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.014	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.002	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.013	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.001	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 08-25-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation

Date: 8-26-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.041	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.005	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.003	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.100	0.045	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.011	0.005	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	1.400	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.011	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.157	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date: 8-27-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.031	0.000	0.0	0
	10:00	0.021	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.010	0.003	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.007	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date: 8-28-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.140	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.100	0.0	0
	13:00	0.000	0.100	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.016	0.022	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date: 8-29-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.041	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.021	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.007	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.003	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation

Date: 9-2-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.001	0.000	0.0	0
	14:00	0.041	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.005	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date:-9-03-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

HOURLY FENCE LINE FIELD MEASUREMENTS

Hammond MGP Upland Remediation

Date: 9-4-08

Site	TIME	DUST	VOC	ODOR	Benzene
Location		(mg/m3)	(ppmv)		(ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

NO SAMPLING DUE TO RAIN EVENT

REAL TIME MONITORING CONTINUED BOTH ON AND OFFSITE.

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date: 9-8-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date: 9-9-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

**HOURLY FENCE LINE FIELD MEASUREMENTS
Hammond MGP Upland Remediation**

Date: 9-10-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE		0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-11-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0

14:00	0.000	0.000	0.0	0
15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-12-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR
N	7:00	0.000	0.000	0.0
	8:00	0.000	0.000	0.0
	9:00	0.000	0.000	0.0
	10:00	0.000	0.000	0.0
	11:00	0.000	0.000	0.0
	12:00	0.000	0.000	0.0
	13:00	0.000	0.000	0.0
	14:00	0.000	0.000	0.0
	15:00	0.000	0.000	0.0
	16:00	0.000	0.000	0.0
	AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0
	8:00	0.000	0.000	0.0
	9:00	0.000	0.000	0.0
	10:00	0.000	0.000	0.0
	11:00	0.000	0.000	0.0
	12:00	0.000	0.000	0.0
	13:00	0.000	0.000	0.0
	14:00	0.000	0.000	0.0
	15:00	0.000	0.000	0.0
	16:00	0.000	0.000	0.0
	AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0
	8:00	0.000	0.000	0.0
	9:00	0.000	0.000	0.0
	10:00	0.000	0.000	0.0
	11:00	0.000	0.000	0.0
	12:00	0.000	0.000	0.0
	13:00	0.000	0.000	0.0
	14:00	0.000	0.000	0.0
	15:00	0.000	0.000	0.0
	16:00	0.000	0.000	0.0
	AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0
	8:00	0.000	0.000	0.0
	9:00	0.000	0.000	0.0
	10:00	0.000	0.000	0.0
	11:00	0.000	0.000	0.0
	12:00	0.000	0.000	0.0
	13:00	0.000	0.000	0.0
	14:00	0.000	0.000	0.0

15:00	0.000	0.000	0.0
16:00	0.000	0.000	0.0
AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

No air monitoring today due to flood event.
9/15/2008

No air monitoring today due to flood event.
9/16/2008

No air monitoring today due to flood event.
9/17/2008

Date: 9-18-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-19-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

Date: 9-22-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-23-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-24-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-25-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-26-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-29-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 9-30-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID

Dust readings measured with personal data ram

Benzene measured with a Drager Chip set measurement system

Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date:10-1-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

- VOC Readings measured with Procheck(PPB) PID**
- Dust readings measured with personal data ram**
- Benzene measured with a Drager Chip set measurement system**
- Odor reported on a relative scale of 1 to 10 based on olfactory observations**

Date: 10-02-08

Site

Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
	16:00	0.000	0.000	0.0	0
	AVERAGE	0.000	0.000	0.0	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0

15:00	0.000	0.000	0.0	0
16:00	0.000	0.000	0.0	0
AVERAGE	0.000	0.000	0.0	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 10-06-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

Date: 10-07-08

Site Location	TIME	DUST (mg/m3)	VOC (ppmv)	ODOR	Benzene (ppm)
N	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
E	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
W	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0
S	7:00	0.000	0.000	0.0	0
	8:00	0.000	0.000	0.0	0
	9:00	0.000	0.000	0.0	0
	10:00	0.000	0.000	0.0	0
	11:00	0.000	0.000	0.0	0
	12:00	0.000	0.000	0.0	0
	13:00	0.000	0.000	0.0	0
	14:00	0.000	0.000	0.0	0
	15:00	0.000	0.000	0.0	0
		AVERAGE	0.000	0.000	0.0

NOTES:

VOC Readings measured with Procheck(PPB) PID
Dust readings measured with personal data ram
Benzene measured with a Drager Chip set measurement system
Odor reported on a relative scale of 1 to 10 based on olfactory observations

APPENDIX D

Laboratory Reports (on a compact disk)



THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

Job#: A07-C468, A07-C469, A07-C503, A07-C504, A07-C615, A07-C616,
A07-C617, A07-C618, A07-C761, A07-C763, A07-C764, A07-C766,
A07-C810, A07-C812, A07-C857, A07-C859, A07-C932, A07-C934,
A07-D033, A07-D034, A07-D109, A07-D116, A07-D154, A07-D155,
A07-D212, A07-D213, A07-D286, A07-D287

Project#: NY3A9043

SDG#: C468

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

Bill Haswell
Haley & Aldrich, Inc.
340 Granite Street, 3rd Floor
Manchester, NH 03102

TestAmerica Laboratories Inc.

Candace L. Fox

Candace L. Fox
Project Manager

11/26/2007



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A7D28704	DUP ANASORB	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C85908	DUP ANASORB SE	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C93408	DUP XAD SE	AIR	11/07/2007	15:30	11/08/2007	08:45
A7C61608	DUPE XAD	AIR	10/30/2007	16:00	11/01/2007	09:15
A7D15507	DUPLICATE ANA NE	AIR	11/12/2007	15:30	11/13/2007	08:45
A7C46802	NE ANASORB	AIR	10/26/2007	13:20	10/29/2007	09:30
A7C50401	NE ANASORB	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61602	NE ANASORB	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61801	NE ANASORB	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85701	NE ANASORB	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C61809	NE ANASORB DUP	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C50301	NE DUPE ANASORB	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C46909	NE XAD	AIR	10/26/2007	13:20	10/29/2007	09:30
A7C50402	NE XAD	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61603	NE XAD	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61802	NE XAD	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85901	NE XAD	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C46902	NORTHEAST ANASORB	AIR	10/25/2007	16:00	10/29/2007	09:30
A7C76101	NORTHEAST ANASORB	AIR	11/02/2007	15:00	11/03/2007	09:15
A7C76601	NORTHEAST ANASORB	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81201	NORTHEAST ANASORB	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93401	NORTHEAST ANASORB	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03401	NORTHEAST ANASORB	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10901	NORTHEAST ANASORB	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15401	NORTHEAST ANASORB	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21301	NORTHEAST ANASORB	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28701	NORTHEAST ANASORB	AIR	11/14/2007	15:30	11/15/2007	08:45
A7D03408	NORTHEAST ANASORB-D	AIR	11/08/2007	15:30	11/09/2007	08:45
A7C46903	NORTHEAST XAD	AIR	10/25/2007	16:00	10/29/2007	09:30
A7C76401	NORTHEAST XAD	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81202	NORTHEAST XAD	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93402	NORTHEAST XAD	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03402	NORTHEAST XAD	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10902	NORTHEAST XAD	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15501	NORTHEAST XAD	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21302	NORTHEAST XAD	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28705	NORTHEAST XAD	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C46801	NORTHWEST ANASORB	AIR	10/25/2007	15:30	10/29/2007	09:30
A7C76301	NORTHWEST ANASORB	AIR	11/02/2007	12:30	11/03/2007	09:15
A7C76402	NORTHWEST ANASORB	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81203	NORTHWEST ANASORB	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93403	NORTHWEST ANASORB	AIR	11/07/2007	15:30	11/08/2007	08:45

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A7D03403	NORTHWEST ANASORB	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10903	NORTHWEST ANASORB	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15502	NORTHWEST ANASORB	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21303	NORTHWEST ANASORB	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28601	NORTHWEST ANASORB	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C46901	NORTHWEST XAD	AIR	10/25/2007	15:30	10/29/2007	09:30
A7C76102	NORTHWEST XAD	AIR	11/02/2007	15:00	11/03/2007	09:15
A7C76403	NORTHWEST XAD	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81001	NORTHWEST XAD	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93404	NORTHWEST XAD	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03404	NORTHWEST XAD	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10904	NORTHWEST XAD	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15503	NORTHWEST XAD	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21304	NORTHWEST XAD	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28602	NORTHWEST XAD	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C46908	NW ANASORB	AIR	10/26/2007	13:10	10/29/2007	09:30
A7C50403	NW ANASORB	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61501	NW ANASORB	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61803	NW ANASORB	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85902	NW ANASORB	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C46910	NW XAD	AIR	10/26/2007	13:10	10/29/2007	09:30
A7C50404	NW XAD	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61601	NW XAD	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61804	NW XAD	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85903	NW XAD	AIR	11/06/2007	15:30	11/07/2007	08:45
A7D21308	OFFSITE LOC ANASORB	AIR	11/13/2007	15:30	11/14/2007	08:45
A7C76408	OFFSITE LOCATION XAD	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C46911	SE ANASORB	AIR	10/26/2007	13:15	10/29/2007	09:30
A7C50405	SE ANASORB	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61606	SE ANASORB	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61701	SE ANASORB	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85904	SE ANASORB	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C46913	SE XAD	AIR	10/26/2007	13:15	10/29/2007	09:30
A7C50406	SE XAD	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61607	SE XAD	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61806	SE XAD	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85905	SE XAD	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C46907	SOUTHEAST ANASORB	AIR	10/25/2007	16:30	10/29/2007	09:30
A7C76103	SOUTHEAST ANASORB	AIR	11/02/2007	15:00	11/03/2007	09:15
A7C76404	SOUTHEAST ANASORB	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81204	SOUTHEAST ANASORB	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93405	SOUTHEAST ANASORB	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03301	SOUTHEAST ANASORB	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10905	SOUTHEAST ANASORB	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15402	SOUTHEAST ANASORB	AIR	11/12/2007	15:30	11/13/2007	08:45

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A7D21201	SOUTHEAST ANASORB	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28702	SOUTHEAST ANASORB	AIR	11/14/2007	15:30	11/15/2007	08:45
A7D10909	SOUTHEAST DUPE	AIR	11/09/2007	14:30	11/10/2007	08:50
A7C46906	SOUTHEAST XAD	AIR	10/25/2007	16:30	10/29/2007	09:30
A7C76104	SOUTHEAST XAD	AIR	11/02/2007	15:00	11/03/2007	09:15
A7C76405	SOUTHEAST XAD	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81205	SOUTHEAST XAD	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93406	SOUTHEAST XAD	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03405	SOUTHEAST XAD	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10906	SOUTHEAST XAD	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15504	SOUTHEAST XAD	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21305	SOUTHEAST XAD	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28706	SOUTHEAST XAD	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C46905	SOUTHWEST ANASORB	AIR	10/25/2007	16:15	10/29/2007	09:30
A7C76105	SOUTHWEST ANASORB	AIR	11/02/2007	15:00	11/03/2007	09:15
A7C76406	SOUTHWEST ANASORB	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81206	SOUTHWEST ANASORB	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93407	SOUTHWEST ANASORB	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03406	SOUTHWEST ANASORB	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10907	SOUTHWEST ANASORB	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15505	SOUTHWEST ANASORB	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21306	SOUTHWEST ANASORB	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28703	SOUTHWEST ANASORB	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C46904	SOUTHWEST XAD	AIR	10/25/2007	16:15	10/29/2007	09:30
A7C76106	SOUTHWEST XAD	AIR	11/02/2007	15:00	11/03/2007	09:15
A7C76407	SOUTHWEST XAD	AIR	11/01/2007	15:30	11/03/2007	09:15
A7C81207	SOUTHWEST XAD	AIR	11/05/2007	15:00	11/06/2007	09:00
A7C93201	SOUTHWEST XAD	AIR	11/07/2007	15:30	11/08/2007	08:45
A7D03407	SOUTHWEST XAD	AIR	11/08/2007	15:30	11/09/2007	08:45
A7D10908	SOUTHWEST XAD	AIR	11/09/2007	14:30	11/10/2007	08:50
A7D15506	SOUTHWEST XAD	AIR	11/12/2007	15:30	11/13/2007	08:45
A7D21307	SOUTHWEST XAD	AIR	11/13/2007	15:30	11/14/2007	08:45
A7D28707	SOUTHWEST XAD	AIR	11/14/2007	15:30	11/15/2007	08:45
A7C46912	SW ANASORB	AIR	10/26/2007	13:05	10/29/2007	09:30
A7C50407	SW ANASORB	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61604	SW ANASORB	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61807	SW ANASORB	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85906	SW ANASORB	AIR	11/06/2007	15:30	11/07/2007	08:45
A7C46914	SW XAD	AIR	10/26/2007	13:05	10/29/2007	09:30
A7C50408	SW XAD	AIR	10/29/2007	15:30	10/30/2007	09:00
A7C61605	SW XAD	AIR	10/30/2007	16:00	11/01/2007	09:15
A7C61808	SW XAD	AIR	10/31/2007	16:00	11/01/2007	09:15
A7C85907	SW XAD	AIR	11/06/2007	15:30	11/07/2007	08:45

METHODS SUMMARY

Job#: A07-C468, A07-C469, A07-C503, A07-C504, A07-C615, A07-C616,
A07-C617, A07-C618, A07-C761, A07-C763, A07-C764, A07-C766,
A07-C810, A07-C812, A07-C857, A07-C859, A07-C932, A07-C934,
A07-D033, A07-D034, A07-D109, A07-D116, A07-D154, A07-D155,
A07-D212, A07-D213, A07-D286, A07-D287

Project#: NY3A9043
 SDG#: C468
 Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A07-C468, A07-C469, A07-C503, A07-C504, A07-C615, A07-C616, A07-C617, A07-C618, A07-C761, A07-C763, A07-C764, A07-C766, A07-C810, A07-C812, A07-C857, A07-C859, A07-C932, A07-C934, A07-D033, A07-D034, A07-D109, A07-D116, A07-D154, A07-D155, A07-D212, A07-D213, A07-D286, A07-D287

Project#: NY3A9043
SDG#: C468
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-C468

Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C
All samples were received in good condition.

A07-C469

Sample Cooler(s) were received at the following temperature(s); 2@4.0 °C
All samples were received in good condition.

A07-C503

Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A07-C504

Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A07-C615

Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.

A07-C616

Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.

A07-C617

Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.

A07-C618

Sample Cooler(s) were received at the following temperature(s); 5.0 °C
All samples were received in good condition.

A07-C761

Sample Cooler(s) were received at the following temperature(s); 2.4 °C
All samples were received in good condition.

A07-C763

Sample Cooler(s) were received at the following temperature(s); 2.4 °C
All samples were received in good condition.

A07-C764

Sample Cooler(s) were received at the following temperature(s); 2.4 °C
All samples were received in good condition.

A07-C766

Sample Cooler(s) were received at the following temperature(s); 2.4 °C
All samples were received in good condition.

A07-C810

Sample Cooler(s) were received at the following temperature(s); 2@4.1 °C
All samples were received in good condition.

A07-C812

Sample Cooler(s) were received at the following temperature(s); 2@4.1 °C
All samples were received in good condition.

A07-C857

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
All samples were received in good condition.

A07-C859

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
All samples were received in good condition.

A07-C932

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-C934

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D033

Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A07-D034

Sample Cooler(s) were received at the following temperature(s); 2@3.0 °C
All samples were received in good condition.

A07-D109

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
All samples were received in good condition.

A07-D116

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C
This sample is stored in job D109.

A07-D154

Sample Cooler(s) were received at the following temperature(s); 2@3.4 °C
All samples were received in good condition.

A07-D155

Sample Cooler(s) were received at the following temperature(s); 2@3.4 °C
All samples were received in good condition.

A07-D212

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D213

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D286

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D287

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC Volatile Data

For method 5515, Benzo(ghi)perylene was slightly below the laboratory QC limit in the Matrix Spike Blank and Matrix Spike Duplicate. There were no positives in the samples for this compound.

For method 5515, the Matrix Spike Blank was slightly below the laboratory default limit of 75-125%. The Matrix Spike Blank Duplicate recoveries are compliant and in-house laboratory limits are still being established. No action necessary.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
NORTHWEST ANASORB	A7C46801	1501	2.00	013
NE ANASORB	A7C46802	1501	2.00	013
NORTHEAST ANASORB	A7C46902	1501	2.00	013
SOUTHWEST ANASORB	A7C46905	1501	2.00	013
SOUTHEAST ANASORB	A7C46907	1501	2.00	013
NW ANASORB	A7C46908	1501	2.00	013
SE ANASORB	A7C46911	1501	2.00	013
SW ANASORB	A7C46912	1501	2.00	013
NE DUPE ANASORB	A7C50301	1501	2.00	013
NE ANASORB	A7C50401	1501	2.00	013
NW ANASORB	A7C50403	1501	2.00	013
SE ANASORB	A7C50405	1501	2.00	013
SW ANASORB	A7C50407	1501	2.00	013
NW ANASORB	A7C61501	1501	2.00	013
NE ANASORB	A7C61602	1501	2.00	013
SW ANASORB	A7C61604	1501	2.00	013
SE ANASORB	A7C61606	1501	2.00	013
SE ANASORB	A7C61701	1501	2.00	013
NE ANASORB	A7C61801	1501	2.00	013
NW ANASORB	A7C61803	1501	2.00	013
SW ANASORB	A7C61807	1501	2.00	013
NORTHEAST ANASORB	A7C76101	1501	2.00	013
SOUTHEAST ANASORB	A7C76103	1501	2.00	013
SOUTHWEST ANASORB	A7C76105	1501	2.00	013
NORTHWEST ANASORB	A7C76301	1501	2.00	013
NORTHWEST ANASORB	A7C76402	1501	2.00	013
SOUTHEAST ANASORB	A7C76404	1501	2.00	013
SOUTHWEST ANASORB	A7C76406	1501	2.00	013
NORTHEAST ANASORB	A7C76601	1501	2.00	013
NORTHEAST ANASORB	A7C81201	1501	2.00	013
NORTHWEST ANASORB	A7C81203	1501	2.00	013
SOUTHEAST ANASORB	A7C81204	1501	2.00	013
SOUTHWEST ANASORB	A7C81206	1501	2.00	013
NE ANASORB	A7C85701	1501	2.00	013
NW ANASORB	A7C85902	1501	2.00	013
SE ANASORB	A7C85904	1501	2.00	013
SW ANASORB	A7C85906	1501	2.00	013
DUP ANASORB SE	A7C85908	1501	2.00	013
NORTHEAST ANASORB	A7C93401	1501	2.00	013
NORTHWEST ANASORB	A7C93403	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
SOUTHEAST ANASORB	A7C93405	1501	2.00	013
SOUTHWEST ANASORB	A7C93407	1501	2.00	013
SOUTHEAST ANASORB	A7D03301	1501	2.00	013
NORTHEAST ANASORB	A7D03401	1501	2.00	013
NORTHWEST ANASORB	A7D03403	1501	2.00	013
SOUTHWEST ANASORB	A7D03406	1501	2.00	013
NORTHEAST ANASORB-D	A7D03408	1501	2.00	013
NORTHEAST ANASORB	A7D10901	1501	2.00	013
NORTHWEST ANASORB	A7D10903	1501	2.00	013
SOUTHEAST ANASORB	A7D10905	1501	2.00	013
SOUTHWEST ANASORB	A7D10907	1501	2.00	013
SOUTHEAST DUPE	A7D10909	1501	2.00	013
NORTHEAST ANASORB	A7D15401	1501	2.00	013
SOUTHEAST ANASORB	A7D15402	1501	2.00	013
NORTHWEST ANASORB	A7D15502	1501	2.00	013
SOUTHWEST ANASORB	A7D15505	1501	2.00	013
DUPLICATE ANA NE	A7D15507	1501	2.00	013
SOUTHEAST ANASORB	A7D21201	1501	2.00	013
NORTHEAST ANASORB	A7D21301	1501	2.00	013
NORTHWEST ANASORB	A7D21303	1501	2.00	013
SOUTHWEST ANASORB	A7D21306	1501	2.00	013
OFFSITE LOC ANASORB	A7D21308	1501	2.00	013
NORTHWEST ANASORB	A7D28601	1501	2.00	013
NORTHEAST ANASORB	A7D28701	1501	2.00	013
SOUTHEAST ANASORB	A7D28702	1501	2.00	013
SOUTHWEST ANASORB	A7D28703	1501	2.00	013
DUP ANASORB	A7D28704	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID Job No Sample Date	Lab ID	DUP ANASORB A07-D287 11/14/2007		A7D28704		DUP ANASORB SE A07-C859 11/06/2007		A7C85908		DUPLICATE ANA NE A07-D155 11/12/2007		A7D15507		NE ANASORB A07-C468 10/26/2007		A7C46802	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	3.7	ND	2.9	ND	2.9	ND	3.9	ND	3.9	ND	4.7	ND	4.7		
Ethylbenzene		ND	3.7	ND	2.9	ND	2.9	ND	3.9	ND	3.9	ND	4.7	ND	4.7		
m/p-Xylenes		ND	3.7	ND	2.9	ND	2.9	ND	3.9	ND	3.9	ND	4.7	ND	4.7		
o-Xylene		ND	3.7	ND	2.9	ND	2.9	ND	3.9	ND	3.9	ND	4.7	ND	4.7		
Toluene		ND	3.7	ND	2.9	ND	2.9	ND	3.9	ND	3.9	ND	4.7	ND	4.7		

Client ID Job No Sample Date	Lab ID	NE ANASORB A07-C504 10/29/2007		A7C50401		NE ANASORB A07-C616 10/30/2007		A7C61602		NE ANASORB A07-C618 10/31/2007		A7C61801		NE ANASORB A07-C857 11/06/2007		A7C85701	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.7	ND	5.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1		
Ethylbenzene		ND	4.7	ND	5.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1		
m/p-Xylenes		ND	4.7	ND	5.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1		
o-Xylene		ND	4.7	ND	5.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1		
Toluene		ND	4.7	ND	5.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1	ND	4.1		

Client ID Job No Sample Date	Lab ID	NE ANASORB DUP A07-C618 10/31/2007		A7C61809		NE DUPE ANASORB A07-C503 10/29/2007		A7C50301		NORTHEAST ANASORB A07-C469 10/25/2007		A7C46902		NORTHEAST ANASORB A07-C761 11/02/2007		A7C76101	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.4	ND	4.4	ND	6.3	ND	6.3	ND	4.8	ND	4.8		
Ethylbenzene		ND	4.0	ND	4.4	ND	4.4	ND	6.3	ND	6.3	ND	4.8	ND	4.8		
m/p-Xylenes		ND	4.0	ND	4.4	ND	4.4	ND	6.3	ND	6.3	ND	4.8	ND	4.8		
o-Xylene		ND	4.0	ND	4.4	ND	4.4	ND	6.3	ND	6.3	ND	4.8	ND	4.8		
Toluene		ND	4.0	ND	4.4	ND	4.4	ND	6.3	ND	6.3	ND	4.8	ND	4.8		

Client ID Job No Sample Date	Lab ID	NORTHEAST ANASORB A07-C766 11/01/2007		NORTHEAST ANASORB A07-C812 11/05/2007		NORTHEAST ANASORB A7C81201 11/07/2007		NORTHEAST ANASORB A07-C934 11/07/2007		NORTHEAST ANASORB A07-D034 11/08/2007	
		Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene	UG/M3	4.6	ND	4.5	ND	4.1	ND	4.1	ND	4.3	ND
Ethylbenzene	UG/M3	4.6	ND	4.5	ND	4.1	ND	4.1	ND	4.3	ND
m/p-Xylenes	UG/M3	4.6	ND	4.5	ND	4.1	ND	4.1	ND	4.3	ND
o-Xylene	UG/M3	4.6	ND	4.5	ND	4.1	ND	4.1	ND	4.3	ND
Toluene	UG/M3	4.6	ND	4.5	ND	4.1	ND	4.1	ND	4.3	ND

Client ID Job No Sample Date	Lab ID	NORTHEAST ANASORB A07-D109 11/09/2007		NORTHEAST ANASORB A07-D154 11/12/2007		NORTHEAST ANASORB A7D15401 11/13/2007		NORTHEAST ANASORB A07-D213 11/13/2007		NORTHEAST ANASORB A07-D287 11/14/2007	
		Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene	UG/M3	4.3	ND	4.2	ND	4.2	ND	4.2	ND	4.2	ND
Ethylbenzene	UG/M3	4.3	ND	4.2	ND	4.2	ND	4.2	ND	4.2	ND
m/p-Xylenes	UG/M3	4.3	ND	4.2	ND	4.2	ND	4.2	ND	4.2	ND
o-Xylene	UG/M3	4.3	ND	4.2	ND	4.2	ND	4.2	ND	4.2	ND
Toluene	UG/M3	4.3	ND	4.2	ND	4.2	ND	4.2	ND	4.2	ND

Client ID Job No Sample Date	Lab ID	NORTHEAST ANASORB-D A07-D034 11/08/2007		NORTHWEST ANASORB A07-C468 10/25/2007		NORTHWEST ANASORB A7C46801 11/02/2007		NORTHWEST ANASORB A07-C763 11/02/2007		NORTHWEST ANASORB A07-C764 11/01/2007	
		Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene	UG/M3	3.4	ND	6.5	ND	6.5	ND	5.2	ND	4.2	ND
Ethylbenzene	UG/M3	3.4	ND	6.5	ND	6.5	ND	5.2	ND	4.2	ND
m/p-Xylenes	UG/M3	3.4	ND	6.5	ND	6.5	ND	5.2	ND	4.2	ND
o-Xylene	UG/M3	3.4	ND	6.5	ND	6.5	ND	5.2	ND	4.2	ND
Toluene	UG/M3	3.4	ND	6.5	ND	6.5	ND	5.2	ND	4.2	ND

Client ID Job No Sample Date	Lab ID	NORTHWEST ANASORB A07-C812 11/05/2007	A7C81203	NORTHWEST ANASORB A07-C934 11/07/2007	A7C93403	NORTHWEST ANASORB A07-D034 11/08/2007	A7D03403	NORTHWEST ANASORB A07-D109 11/09/2007	A7D10903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.2	ND	3.9	ND	4.0	ND	3.8
Ethylbenzene	UG/M3	ND	4.2	ND	3.9	ND	4.0	ND	3.8
m/p-Xylenes	UG/M3	ND	4.2	ND	3.9	ND	4.0	ND	3.8
o-Xylene	UG/M3	ND	4.2	ND	3.9	ND	4.0	ND	3.8
Toluene	UG/M3	ND	4.2	ND	3.9	ND	4.0	ND	3.8

Client ID Job No Sample Date	Lab ID	NORTHWEST ANASORB A07-D155 11/12/2007	A7D15502	NORTHWEST ANASORB A07-D213 11/13/2007	A7D21303	NORTHWEST ANASORB A07-D286 11/14/2007	A7D28601	NW ANASORB A07-C469 10/26/2007	A7C46908
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.0	ND	3.9	ND	3.9	ND	6.4
Ethylbenzene	UG/M3	ND	4.0	ND	3.9	ND	3.9	ND	6.4
m/p-Xylenes	UG/M3	ND	4.0	ND	3.9	ND	3.9	ND	6.4
o-Xylene	UG/M3	ND	4.0	ND	3.9	ND	3.9	ND	6.4
Toluene	UG/M3	ND	4.0	ND	3.9	ND	3.9	ND	6.4

Client ID Job No Sample Date	Lab ID	NW ANASORB A07-C504 10/29/2007	A7C50403	NW ANASORB A07-C615 10/30/2007	A7C61501	NW ANASORB A07-C618 10/31/2007	A7C61803	NW ANASORB A07-C859 11/06/2007	A7C85902
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.4	ND	4.1	ND	4.3	ND	3.9
Ethylbenzene	UG/M3	ND	4.4	ND	4.1	ND	4.3	ND	3.9
m/p-Xylenes	UG/M3	ND	4.4	ND	4.1	ND	4.3	ND	3.9
o-Xylene	UG/M3	ND	4.4	ND	4.1	ND	4.3	ND	3.9
Toluene	UG/M3	ND	4.4	ND	4.1	ND	4.3	ND	3.9

Client ID Job No Sample Date	Lab ID	OFFSITE LOC ANASORB A07-D213 11/13/2007		SE ANASORB A07-C469 10/26/2007		A7C46911		SE ANASORB A07-C504 10/29/2007		A7C50405		SE ANASORB A07-C616 10/30/2007	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		UG/M3		ND	3.3	ND	6.8	ND	4.6	4.6	ND	4.9	
Ethylbenzene		UG/M3		ND	3.3	ND	6.8	ND	4.6	4.6	ND	4.9	
m/p-Xylenes		UG/M3		ND	3.3	ND	6.8	ND	4.6	4.6	ND	4.9	
o-Xylene		UG/M3		ND	3.3	ND	6.8	ND	4.6	4.6	ND	4.9	
Toluene		UG/M3		ND	3.3	ND	6.8	ND	4.6	4.6	ND	4.9	

Client ID Job No Sample Date	Lab ID	SE ANASORB A07-C617 10/31/2007		SE ANASORB A07-C859 11/06/2007		A7C85904		SOUTHEAST ANASORB A07-C469 10/25/2007		A7C46907		SOUTHEAST ANASORB A07-C761 11/02/2007	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		UG/M3		ND	7.4	ND	7.8	ND	5.1	5.1	ND	5.7	
Ethylbenzene		UG/M3		ND	7.4	ND	7.8	ND	5.1	5.1	ND	5.7	
m/p-Xylenes		UG/M3		ND	7.4	ND	7.8	ND	5.1	5.1	ND	5.7	
o-Xylene		UG/M3		ND	7.4	ND	7.8	ND	5.1	5.1	ND	5.7	
Toluene		UG/M3		ND	7.4	ND	7.8	ND	5.1	5.1	ND	5.7	

Client ID Job No Sample Date	Lab ID	SOUTHEAST ANASORB A07-C764 11/01/2007		SOUTHEAST ANASORB A07-C812 11/05/2007		A7C81204		SOUTHEAST ANASORB A07-C934 11/07/2007		A7C93405		SOUTHEAST ANASORB A07-D033 11/08/2007	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		UG/M3		ND	5.0	ND	4.5	ND	6.2	6.2	ND	7.6	
Ethylbenzene		UG/M3		ND	5.0	ND	4.5	ND	6.2	6.2	ND	7.6	
m/p-Xylenes		UG/M3		ND	5.0	ND	4.5	ND	6.2	6.2	ND	7.6	
o-Xylene		UG/M3		ND	5.0	ND	4.5	ND	6.2	6.2	ND	7.6	
Toluene		UG/M3		ND	5.0	ND	4.5	ND	6.2	6.2	ND	7.6	

Client ID Job No Sample Date	Lab ID	SOUTHEAST ANASORB A07-D116 11/09/2007		SOUTHEAST ANASORB A07-D154 11/12/2007		SOUTHEAST ANASORB A07-D212 11/13/2007		SOUTHEAST ANASORB A07-D287 11/14/2007	
		Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene		UG/M3	ND	ND	4.6	ND	4.7	ND	4.0
Ethylbenzene		UG/M3	ND	ND	4.6	ND	4.7	ND	4.0
m/p-Xylenes		UG/M3	ND	ND	4.6	ND	4.7	ND	4.0
o-Xylene		UG/M3	ND	ND	4.6	ND	4.7	ND	4.0
Toluene		UG/M3	ND	ND	4.6	ND	4.7	ND	4.0

Client ID Job No Sample Date	Lab ID	SOUTHEAST DUPE A07-D109 11/09/2007		SOUTHWEST ANASORB A07-C469 10/25/2007		SOUTHWEST ANASORB A07-C761 11/02/2007		SOUTHWEST ANASORB A07-C764 11/01/2007	
		Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene		UG/M3	ND	ND	4.3	ND	5.8	ND	6.1
Ethylbenzene		UG/M3	ND	ND	4.3	ND	5.8	ND	6.1
m/p-Xylenes		UG/M3	ND	ND	4.3	ND	5.8	ND	6.1
o-Xylene		UG/M3	ND	ND	4.3	ND	5.8	ND	6.1
Toluene		UG/M3	ND	ND	4.3	ND	5.8	ND	6.1

Client ID Job No Sample Date	Lab ID	SOUTHWEST ANASORB A07-C812 11/05/2007		SOUTHWEST ANASORB A07-C934 11/07/2007		SOUTHWEST ANASORB A07-D034 11/08/2007		SOUTHWEST ANASORB A07-D109 11/09/2007	
		Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene		UG/M3	ND	ND	5.1	ND	5.4	ND	5.4
Ethylbenzene		UG/M3	ND	ND	5.1	ND	5.4	ND	5.4
m/p-Xylenes		UG/M3	ND	ND	5.1	ND	5.4	ND	5.4
o-Xylene		UG/M3	ND	ND	5.1	ND	5.4	ND	5.4
Toluene		UG/M3	ND	ND	5.1	ND	5.4	ND	5.4

Client ID Job No Sample Date	Lab ID	SOUTHWEST ANASORB A07-D155 11/12/2007	SOUTHWEST ANASORB A7D15505	SOUTHWEST ANASORB A07-D213 11/13/2007	SOUTHWEST ANASORB A7D21306	SOUTHWEST ANASORB A07-D287 11/14/2007	SOUTHWEST ANASORB A7D28703	SW ANASORB A07-C469 10/26/2007	A7C46912
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.6	ND	5.4	ND	5.1	ND	8.3
Ethylbenzene	UG/M3	ND	5.6	ND	5.4	ND	5.1	ND	8.3
m/p-Xylenes	UG/M3	ND	5.6	ND	5.4	ND	5.1	ND	8.3
o-Xylene	UG/M3	ND	5.6	ND	5.4	ND	5.1	ND	8.3
Toluene	UG/M3	ND	5.6	ND	5.4	ND	5.1	ND	8.3

Client ID Job No Sample Date	Lab ID	SW ANASORB A07-C504 10/29/2007	A7C50407	SW ANASORB A07-C616 10/30/2007	A7C61604	SW ANASORB A07-C618 10/31/2007	A7C61807	SW ANASORB A07-C859 11/06/2007	A7C85906
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.9	ND	5.5	ND	7.1	ND	5.2
Ethylbenzene	UG/M3	ND	5.9	ND	5.5	ND	7.1	ND	5.2
m/p-Xylenes	UG/M3	ND	5.9	ND	5.5	ND	7.1	ND	5.2
o-Xylene	UG/M3	ND	5.9	ND	5.5	ND	7.1	ND	5.2
Toluene	UG/M3	ND	5.9	ND	5.5	ND	7.1	ND	5.2

Client ID Job No Sample Date	Lab ID	DUP XAD SE A07-C934 11/07/2007	A7C93408	DUPE XAD A07-C616 10/30/2007	A7C61608	NE XAD A07-C469 10/26/2007	A7C46909	NE XAD A07-C504 10/29/2007	A7C50402
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Acenaphthylene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Anthracene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Benzo(a)anthracene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Benzo(a)pyrene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Benzo(b)fluoranthene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Benzo(ghi)perylene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Benzo(k)fluoranthene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Chrysene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Dibenzo(a,h)anthracene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Fluoranthene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Fluorene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Naphthalene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Phenanthrene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0
Pyrene	UG/M3	ND	3.8	ND	9.0	ND	7.8	ND	6.0

Client ID Job No Sample Date	Lab ID	NE XAD A07-C616 10/30/2007	A7C61603	NE XAD A07-C618 10/31/2007	A7C61802	NE XAD A07-C859 11/06/2007	A7C85901	NORTHEAST XAD A07-C469 10/25/2007	A7C46903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Acenaphthylene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Anthracene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Benzo(a)anthracene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Benzo(a)pyrene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Benzo(b)fluoranthene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Benzo(ghi)perylene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Benzo(k)fluoranthene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Chrysene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Dibenzo(a,h)anthracene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Fluoranthene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Fluorene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Naphthalene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Phenanthrene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2
Pyrene	UG/M3	ND	5.9	ND	5.4	ND	4.9	ND	7.2

Client ID Job No Sample Date	Lab ID	NORTHEAST XAD A07-C764 11/01/2007	A7C76401	NORTHEAST XAD A07-C812 11/05/2007	A7C81202	NORTHEAST XAD A07-C934 11/07/2007	A7C93402	NORTHEAST XAD A07-D034 11/08/2007	A7D03402
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Acenaphthylene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Anthracene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Benzo(a)anthracene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Benzo(a)pyrene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Benzo(b)fluoranthene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Benzo(ghi)perylene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Benzo(k)fluoranthene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Chrysene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Dibenzo(a,h)anthracene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Fluoranthene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Fluorene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Naphthalene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Phenanthrene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9
Pyrene	UG/M3	ND	5.8	ND	5.0	ND	5.4	ND	4.9

Client ID Job No Sample Date	Lab ID	NORTHEAST XAD A07-D109 11/09/2007	A7D10902	NORTHEAST XAD A07-D155 11/12/2007	A7D15501	NORTHEAST XAD A07-D213 11/13/2007	A7D21302	NORTHEAST XAD A07-D287 11/14/2007	A7D28705
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Acenaphthylene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Anthracene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Benzo(a)anthracene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Benzo(a)pyrene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Benzo(b)fluoranthene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Benzo(ghi)perylene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Benzo(k)fluoranthene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Chrysene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Dibenzo(a,h)anthracene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Fluoranthene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Fluorene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Naphthalene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Phenanthrene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8
Pyrene	UG/M3	ND	4.8	ND	4.8	ND	4.9	ND	4.8

Client ID Job No Sample Date	Lab ID	NORTHWEST XAD A07-C469 10/25/2007	A7c46901	NORTHWEST XAD A07-C761 11/02/2007	A7c76102	NORTHWEST XAD A07-C764 11/01/2007	A7c76403	NORTHWEST XAD A07-C810 11/05/2007	A7c81001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Acenaphthylene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Anthracene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Benzo(a)anthracene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Benzo(a)pyrene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Benzo(b)fluoranthene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Benzo(ghi)perylene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Benzo(k)fluoranthene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Chrysene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Dibenzo(a,h)anthracene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Fluoranthene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Fluorene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Naphthalene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Phenanthrene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3
Pyrene	UG/M3	ND	5.7	ND	4.6	ND	4.7	ND	4.3

Client ID Job No Sample Date	Lab ID	NORTHWEST XAD A07-C934 11/07/2007	A7c93404	NORTHWEST XAD A07-D034 11/08/2007	A7D03404	NORTHWEST XAD A07-D109 11/09/2007	A7D10904	NORTHWEST XAD A07-D155 11/12/2007	A7D15503
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Acenaphthylene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Anthracene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Benzo(a)anthracene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Benzo(a)pyrene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Benzo(b)fluoranthene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Benzo(ghi)perylene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Benzo(k)fluoranthene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Chrysene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Dibenzo(a,h)anthracene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Fluoranthene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Fluorene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Naphthalene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Phenanthrene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5
Pyrene	UG/M3	ND	4.5	ND	4.4	ND	4.1	ND	4.5

Client ID Job No Sample Date	Lab ID	NORTHWEST XAD A07-D213 11/13/2007	A7D21304	NORTHWEST XAD A07-D286 11/14/2007	A7D28602	NW XAD A07-C469 10/26/2007	A7C46910	NW XAD A07-C504 10/29/2007	A7C50404
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Acenaphthylene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Anthracene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Benzo(a)anthracene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Benzo(a)pyrene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Benzo(b)fluoranthene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Benzo(ghi)perylene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Benzo(k)fluoranthene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Chrysene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Dibenzo(a,h)anthracene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Fluoranthene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Fluorene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Naphthalene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Phenanthrene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2
Pyrene	UG/M3	ND	4.0	ND	4.3	ND	6.0	ND	4.2

Client ID Job No Sample Date	Lab ID	NW XAD A07-C616 10/30/2007	A7C61601	NW XAD A07-C618 10/31/2007	A7C61804	NW XAD A07-C859 11/06/2007	A7C85903	OFFSITE LOCATION XAD A07-C764 11/01/2007	A7C76408
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Acenaphthylene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Anthracene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Benzo(a)anthracene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Benzo(a)pyrene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Benzo(b)fluoranthene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Benzo(ghi)perylene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Benzo(k)fluoranthene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Chrysene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Dibenzo(a,h)anthracene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Fluoranthene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Fluorene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Naphthalene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Phenanthrene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6
Pyrene	UG/M3	ND	3.9	ND	3.8	ND	4.3	ND	4.6

Client ID Job No Sample Date	Lab ID	SE XAD A07-C469 10/26/2007	A7c46913	SE XAD A07-C504 10/29/2007	A7c50406	SE XAD A07-C616 10/30/2007	A7c61607	SE XAD A07-C618 10/31/2007	A7c61806
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Acenaphthylene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Anthracene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Benzo(a)anthracene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Benzo(a)pyrene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Benzo(b)fluoranthene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Benzo(ghi)perylene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Benzo(k)fluoranthene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Chrysene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Dibenzo(a,h)anthracene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Fluoranthene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Fluorene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Indeno(1,2,3-cd)pyrene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Naphthalene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Phenanthrene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1
Pyrene	UG/M3	ND	8.0	ND	5.7	ND	5.7	ND	5.1

Client ID Job No Sample Date	Lab ID	SE XAD A07-C859 11/06/2007	A7c85905	SOUTHEAST XAD A07-C469 10/25/2007	A7c46906	SOUTHEAST XAD A07-C761 11/02/2007	A7c76104	SOUTHEAST XAD A07-C764 11/01/2007	A7c76405
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Acenaphthylene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Anthracene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Benzo(a)anthracene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Benzo(a)pyrene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Benzo(b)fluoranthene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Benzo(ghi)perylene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Benzo(k)fluoranthene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Chrysene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Dibenzo(a,h)anthracene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Fluoranthene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Fluorene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Naphthalene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Phenanthrene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7
Pyrene	UG/M3	ND	4.9	ND	6.5	ND	5.6	ND	6.7

Client ID Job No Sample Date	Lab ID	SOUTHEAST XAD A07-C812 11/05/2007	A7C81205	SOUTHEAST XAD A07-C934 11/07/2007	A7C93406	SOUTHEAST XAD A07-D034 11/08/2007	A7D03405	SOUTHEAST XAD A07-D109 11/09/2007	A7D10906
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Acenaphthylene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Anthracene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Benzo(a)anthracene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Benzo(a)pyrene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Benzo(b)fluoranthene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Benzo(ghi)perylene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Benzo(k)fluoranthene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Chrysene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Dibenzo(a,h)anthracene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Fluoranthene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Fluorene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Naphthalene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Phenanthrene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9
Pyrene	UG/M3	ND	5.2	ND	5.0	ND	4.9	ND	4.9

Client ID Job No Sample Date	Lab ID	SOUTHEAST XAD A07-D155 11/12/2007	A7D15504	SOUTHEAST XAD A07-D213 11/13/2007	A7D21305	SOUTHEAST XAD A07-D287 11/14/2007	A7D28706	SOUTHWEST XAD A07-C469 10/25/2007	A7C46904
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Acenaphthylene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Anthracene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Benzo(a)anthracene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Benzo(a)pyrene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Chrysene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Fluoranthene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Fluorene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Naphthalene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Phenanthrene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0
Pyrene	UG/M3	ND	4.7	ND	5.1	ND	4.5	ND	5.0

Client ID Job No Sample Date	Lab ID	SOUTHWEST XAD A07-C761 11/02/2007	A7C76106	SOUTHWEST XAD A07-C764 11/01/2007	A7C76407	SOUTHWEST XAD A07-C812 11/05/2007	A7C81207	SOUTHWEST XAD A07-C932 11/07/2007	A7C93201
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Acenaphthylene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Anthracene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Benzo(a)anthracene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Benzo(a)pyrene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Benzo(b)fluoranthene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Benzo(ghi)perylene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Benzo(k)fluoranthene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Chrysene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Dibenzo(a,h)anthracene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Fluoranthene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Fluorene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Naphthalene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Phenanthrene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7
Pyrene	UG/M3	ND	3.9	ND	4.5	ND	3.8	ND	3.7

Client ID Job No Sample Date	Lab ID	SOUTHWEST XAD A07-D034 11/08/2007	A7D03407	SOUTHWEST XAD A07-D109 11/09/2007	A7D10908	SOUTHWEST XAD A07-D155 11/12/2007	A7D15506	SOUTHWEST XAD A07-D213 11/13/2007	A7D21307
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Acenaphthylene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Anthracene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Benzo(a)anthracene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Benzo(a)pyrene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Benzo(b)fluoranthene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Benzo(ghi)perylene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Benzo(k)fluoranthene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Chrysene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Dibenzo(a,h)anthracene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Fluoranthene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Fluorene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Naphthalene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Phenanthrene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6
Pyrene	UG/M3	ND	3.6	ND	4.0	ND	3.7	ND	3.6

Client ID Job No Sample Date	Lab ID	SOUTHWEST XAD A07-D287 11/14/2007	A7D28707	SW XAD A07-C469 10/26/2007	A7C46914	SW XAD A07-C504 10/29/2007	A7C50408	SW XAD A07-C616 10/30/2007	A7C61605
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Acenaphthylene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Anthracene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Benzo(a)anthracene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Benzo(a)pyrene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Benzo(b)fluoranthene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Benzo(ghi)perylene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Benzo(k)fluoranthene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Chrysene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Dibenzo(a,h)anthracene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Fluoranthene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Fluorene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Naphthalene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Phenanthrene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8
Pyrene	UG/M3	ND	3.7	ND	5.9	ND	4.2	ND	3.8

Client ID Job No Sample Date	Lab ID	SW XAD A07-C618 10/31/2007	A7C61808	SW XAD A07-C859 11/06/2007	A7C85907	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Acenaphthylene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Anthracene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Benzo(a)anthracene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Benzo(a)pyrene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Benzo(b)fluoranthene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Benzo(ghi)perylene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Benzo(k)fluoranthene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Chrysene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Dibenzo(a,h)anthracene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Fluoranthene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Fluorene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Naphthalene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Phenanthrene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8
Pyrene	UG/M3	ND	4.7	ND	3.6	NA	3.6	NA	3.8

Chronology and QC Summary Package

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A7B1730703		Method Blank(VBLK_) A7B1731703		Method Blank(VBLK_) A7B1755803		Method Blank(VBLK_) A7B1773003	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.0	ND	4.0	ND	4.0
Ethylbenzene		ND	4.0	ND	4.0	ND	4.0	ND	4.0
m/p-Xylenes		ND	4.0	ND	4.0	ND	4.0	ND	4.0
o-Xylene		ND	4.0	ND	4.0	ND	4.0	ND	4.0
Toluene		ND	4.0	ND	4.0	ND	4.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A7B1775603		Method Blank(VBLK_) A7B1775803		Method Blank(VBLK_) A7B1798103		Method Blank(VBLK_) A7B1811303	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.0	ND	4.0	ND	4.0
Ethylbenzene		ND	4.0	ND	4.0	ND	4.0	ND	4.0
m/p-Xylenes		ND	4.0	ND	4.0	ND	4.0	ND	4.0
o-Xylene		ND	4.0	ND	4.0	ND	4.0	ND	4.0
Toluene		ND	4.0	ND	4.0	ND	4.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A7B1817503		Method Blank(VBLK_) A7B1840703		Method Blank(VBLK_) A7B1840703		Method Blank(VBLK_) A7B1840703	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.0	ND	4.0	NA	NA
Ethylbenzene		ND	4.0	ND	4.0	ND	4.0	NA	NA
m/p-Xylenes		ND	4.0	ND	4.0	ND	4.0	NA	NA
o-Xylene		ND	4.0	ND	4.0	ND	4.0	NA	NA
Toluene		ND	4.0	ND	4.0	ND	4.0	NA	NA

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK__) A07-C616 A7B1749703		Method Blank(VBLK__) A07-C932 A7B1790103		Method Blank(VBLK__) A07-C859 A7B1797403		Method Blank(VBLK__) A07-D034 A7B1829003	
		Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chrysene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluorene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Naphthalene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Phenanthrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK__) A07-D287 A7B1860103		Method Blank(VBLK__)		Method Blank(VBLK__)		Method Blank(VBLK__)	
		Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	NA		NA		NA	
Acenaphthylene	UG/M3	ND	5.0	NA		NA		NA	
Anthracene	UG/M3	ND	5.0	NA		NA		NA	
Benzo(a)anthracene	UG/M3	ND	5.0	NA		NA		NA	
Benzo(a)pyrene	UG/M3	ND	5.0	NA		NA		NA	
Benzo(b)fluoranthene	UG/M3	ND	5.0	NA		NA		NA	
Benzo(ghi)perylene	UG/M3	ND	5.0	NA		NA		NA	
Benzo(k)fluoranthene	UG/M3	ND	5.0	NA		NA		NA	
Chrysene	UG/M3	ND	5.0	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	NA		NA		NA	
Fluoranthene	UG/M3	ND	5.0	NA		NA		NA	
Fluorene	UG/M3	ND	5.0	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	NA		NA		NA	
Naphthalene	UG/M3	ND	5.0	NA		NA		NA	
Phenanthrene	UG/M3	ND	5.0	NA		NA		NA	
Pyrene	UG/M3	ND	5.0	NA		NA		NA	

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A7B1730701		Matrix Spike Blank A7B1731701		Matrix Spike Blank A7B1755801		Matrix Spike Blank A7B1773001	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		18	4.0	17	4.0	16	4.0	16	4.0
		22	4.0	21	4.0	19	4.0	18	4.0
		43	4.0	41	4.0	37	4.0	37	4.0
		21	4.0	20	4.0	18	4.0	18	4.0
		21	4.0	20	4.0	18	4.0	18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A7B1775601		Matrix Spike Blank A7B1775801		Matrix Spike Blank A7B1798101		Matrix Spike Blank A7B1811301	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		16	4.0	16	4.0	15	4.0	15	4.0
		18	4.0	19	4.0	18	4.0	19	4.0
		37	4.0	37	4.0	35	4.0	37	4.0
		18	4.0	18	4.0	17	4.0	18	4.0
		18	4.0	18	4.0	17	4.0	18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A7B1817501		Matrix Spike Blank A7B1840701		Matrix Spike Blank Dup A7B1730702		Matrix Spike Blank Dup A7B1731702	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		17	4.0	16	4.0	19	4.0	17	4.0
		20	4.0	18	4.0	22	4.0	20	4.0
		39	4.0	36	4.0	44	4.0	40	4.0
		19	4.0	18	4.0	22	4.0	20	4.0
		19	4.0	18	4.0	22	4.0	20	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-C615 A7B1755802		Matrix Spike Blk Dup A07-C763 A7B1773002		Matrix Spike Blk Dup A07-C857 A7B1775602		Matrix Spike Blk Dup A07-C812 A7B1775802	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene	UG/M3 UG/M3 UG/M3 UG/M3 UG/M3	16	4.0	16	4.0	20	4.0	16	4.0
		19	4.0	19	4.0	23	4.0	19	4.0
		37	4.0	37	4.0	46	4.0	38	4.0
		18	4.0	18	4.0	22	4.0	18	4.0
		18	4.0	18	4.0	22	4.0	18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-C859 A7B1798102		Matrix Spike Blk Dup A07-D116 A7B1811302		Matrix Spike Blk Dup A07-D213 A7B1817502		Matrix Spike Blk Dup A07-D286 A7B1840702	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene	UG/M3 UG/M3 UG/M3 UG/M3 UG/M3	17	4.0	16	4.0	17	4.0	17	4.0
		20	4.0	18	4.0	20	4.0	19	4.0
		40	4.0	36	4.0	40	4.0	38	4.0
		20	4.0	18	4.0	19	4.0	19	4.0
		19	4.0	18	4.0	19	4.0	19	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-C504	Matrix Spike Blank A7B1749701	Matrix Spike Blank A07-C618	Matrix Spike Blank A7B1790101	Matrix Spike Blank A07-C934	Matrix Spike Blank A7B1797401	Matrix Spike Blank A07-D155	Matrix Spike Blank A7B1829001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	9.0	5.0	6.5	5.0	7.8	5.0	9.4	5.0
Acenaphthylene	UG/M3	9.2	5.0	6.6	5.0	7.7	5.0	9.5	5.0
Anthracene	UG/M3	8.8	5.0	6.5	5.0	8.6	5.0	9.6	5.0
Benzo(a)anthracene	UG/M3	8.0	5.0	5.8	5.0	7.5	5.0	9.4	5.0
Benzo(a)pyrene	UG/M3	7.3	5.0	5.3	5.0	6.4	5.0	9.2	5.0
Benzo(b)fluoranthene	UG/M3	7.3	5.0	5.1	5.0	5.9	5.0	9.2	5.0
Benzo(ghi)perylene	UG/M3	5.5	5.0	ND	5.0	ND	5.0	9.1	5.0
Benzo(k)fluoranthene	UG/M3	7.4	5.0	5.3	5.0	6.6	5.0	9.1	5.0
Chrysene	UG/M3	8.0	5.0	5.8	5.0	7.6	5.0	9.4	5.0
Dibenzo(a,h)anthracene	UG/M3	6.3	5.0	5.1	5.0	5.9	5.0	8.9	5.0
Fluoranthene	UG/M3	8.3	5.0	5.9	5.0	7.3	5.0	9.6	5.0
Fluorene	UG/M3	9.0	5.0	6.7	5.0	8.5	5.0	9.6	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	6.0	5.0	ND	5.0	5.1	5.0	9.1	5.0
Naphthalene	UG/M3	9.4	5.0	7.2	5.0	9.0	5.0	9.2	5.0
Phenanthrene	UG/M3	8.8	5.0	6.4	5.0	8.4	5.0	9.6	5.0
Pyrene	UG/M3	8.4	5.0	5.9	5.0	7.2	5.0	9.6	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-D286	Matrix Spike Blank A7B1860101	Matrix Spike Blank A07-C504	Matrix Spike Blank A7B1749702	Matrix Spike Blank A07-C932	Matrix Spike Blank A7B1790102	Matrix Spike Blank A07-C934	Matrix Spike Blank A7B1797402
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	9.4	5.0	8.9	5.0	8.1	5.0	6.3	5.0
Acenaphthylene	UG/M3	9.5	5.0	9.1	5.0	8.1	5.0	7.2	5.0
Anthracene	UG/M3	9.7	5.0	8.7	5.0	8.7	5.0	8.1	5.0
Benzo(a)anthracene	UG/M3	9.3	5.0	7.9	5.0	8.2	5.0	6.7	5.0
Benzo(a)pyrene	UG/M3	8.9	5.0	7.1	5.0	7.8	5.0	5.6	5.0
Benzo(b)fluoranthene	UG/M3	8.9	5.0	6.9	5.0	7.7	5.0	5.2	5.0
Benzo(ghi)perylene	UG/M3	8.7	5.0	5.0	5.0	6.9	5.0	ND	5.0
Benzo(k)fluoranthene	UG/M3	8.9	5.0	7.2	5.0	7.8	5.0	6.0	5.0
Chrysene	UG/M3	9.3	5.0	7.9	5.0	8.3	5.0	6.8	5.0
Dibenzo(a,h)anthracene	UG/M3	8.9	5.0	6.2	5.0	7.9	5.0	5.2	5.0
Fluoranthene	UG/M3	9.6	5.0	8.1	5.0	8.3	5.0	6.5	5.0
Fluorene	UG/M3	9.7	5.0	9.0	5.0	8.6	5.0	7.8	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.8	5.0	5.6	5.0	7.3	5.0	ND	5.0
Naphthalene	UG/M3	9.1	5.0	9.5	5.0	8.1	5.0	7.7	5.0
Phenanthrene	UG/M3	9.7	5.0	8.7	5.0	8.6	5.0	7.7	5.0
Pyrene	UG/M3	9.7	5.0	8.1	5.0	8.4	5.0	6.5	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-D213	Matrix Spike Blk Dup A7B1829002	Matrix Spike Blk Dup A07-D287	Matrix Spike Blk Dup A7B1860102	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	9.5	5.0	8.8	5.0	NA	5.0	NA	5.0	NA	5.0
Acenaphthylene	UG/M3	9.5	5.0	8.8	5.0	NA	5.0	NA	5.0	NA	5.0
Anthracene	UG/M3	9.7	5.0	9.2	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)anthracene	UG/M3	9.4	5.0	8.8	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)pyrene	UG/M3	9.1	5.0	8.4	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(b)fluoranthene	UG/M3	9.1	5.0	8.3	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(ghi)perylene	UG/M3	9.1	5.0	8.2	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(k)fluoranthene	UG/M3	9.1	5.0	8.2	5.0	NA	5.0	NA	5.0	NA	5.0
Chrysene	UG/M3	9.3	5.0	8.8	5.0	NA	5.0	NA	5.0	NA	5.0
Dibenzo(a,h)anthracene	UG/M3	9.0	5.0	8.3	5.0	NA	5.0	NA	5.0	NA	5.0
Fluoranthene	UG/M3	9.6	5.0	9.1	5.0	NA	5.0	NA	5.0	NA	5.0
Fluorene	UG/M3	9.7	5.0	9.0	5.0	NA	5.0	NA	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	9.0	5.0	8.2	5.0	NA	5.0	NA	5.0	NA	5.0
Naphthalene	UG/M3	9.4	5.0	8.0	5.0	NA	5.0	NA	5.0	NA	5.0
Phenanthrene	UG/M3	9.7	5.0	9.2	5.0	NA	5.0	NA	5.0	NA	5.0
Pyrene	UG/M3	9.6	5.0	9.1	5.0	NA	5.0	NA	5.0	NA	5.0

SDG: C468

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank A7B1730701 Matrix Spike Blk Dup A7B1730702
Lab Sample ID: A7B1730703

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.3	18.8	20.0	20.0	92	94	93	2	30.0	61-131
Toluene	UG/M3	20.9	21.5	20.0	20.0	105	108	107	3	30.0	64-137
Ethylbenzene	UG/M3	21.7	22.4	20.0	20.0	109	112	111	3	30.0	66-147
m/p-Xylenes	UG/M3	43.1	44.4	40.0	40.0	108	111	110	3	30.0	65-141
o-Xylene	UG/M3	21.4	22.0	20.0	20.0	107	110	109	3	30.0	64-139

SDG: C468

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A7B1731703 A7B1731701 A7B1731702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	17.3	17.3	20.0	20.0	86	87	87	1	30.0	61-131
Toluene	UG/M3	19.8	19.8	20.0	20.0	99	99	99	0	30.0	64-137
Ethylbenzene	UG/M3	20.6	20.5	20.0	20.0	103	102	103	1	30.0	66-147
m/p-Xylenes	UG/M3	40.9	40.5	40.0	40.0	102	101	102	1	30.0	65-141
o-Xylene	UG/M3	20.2	20.1	20.0	20.0	101	100	101	1	30.0	64-139

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1749703 A7B1749701 A7B1749702

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery		QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	Avg	% RPD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H									
Dibenzo(a,h)anthracene	UG/M3	6.30	6.20	10.0	10.0	62	63	2	30.0 49-141
Benzo(a)anthracene	UG/M3	8.02	7.89	10.0	10.0	79	80	1	30.0 59-136
Anthracene	UG/M3	8.80	8.74	10.0	10.0	87	88	1	30.0 60-134
Acenaphthene	UG/M3	8.99	8.91	10.0	10.0	89	90	1	30.0 63-134
Naphthalene	UG/M3	9.41	9.54	10.0	10.0	95	95	1	30.0 63-134
Chrysene	UG/M3	8.01	7.89	10.0	10.0	79	80	1	30.0 59-137
Benzo(a)pyrene	UG/M3	7.33	7.12	10.0	10.0	71	72	3	30.0 58-140
Pyrene	UG/M3	8.35	8.12	10.0	10.0	81	83	4	30.0 64-133
Acenaphthylene	UG/M3	9.21	9.08	10.0	10.0	91	92	1	30.0 62-135
Indeno(1,2,3-cd)pyrene	UG/M3	6.04	5.60	10.0	10.0	56	58	7	30.0 47-140
Benzo(b)fluoranthene	UG/M3	7.32	6.94	10.0	10.0	69	71	6	30.0 60-138
Benzo(k)fluoranthene	UG/M3	7.37	7.20	10.0	10.0	72	73	3	30.0 45-137
Phenanthrene	UG/M3	8.76	8.74	10.0	10.0	87	88	1	30.0 63-133
Fluorene	UG/M3	9.04	9.02	10.0	10.0	90	90	0	30.0 64-134
Fluoranthene	UG/M3	8.31	8.13	10.0	10.0	81	82	2	30.0 63-132
Benzo(ghi)perylene	UG/M3	5.47	4.97	10.0	10.0	55 *	53	10	30.0 59-139

* Indicates Result is outside Qc Limits
 NC = Not Calculated ND = Not Detected

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1755803 A7B1755801 A7B1755802

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS													
Benzene	UG/M3	16.2	16.2	20.0	20.0	81	81	81	81	81	0	30.0	61-131
Toluene	UG/M3	18.2	18.2	20.0	20.0	91	91	91	91	91	0	30.0	64-137
Ethylbenzene	UG/M3	18.6	18.6	20.0	20.0	93	93	93	93	93	0	30.0	66-147
m/p-Xylenes	UG/M3	37.0	37.0	40.0	40.0	93	93	93	93	93	0	30.0	65-141
o-Xylene	UG/M3	18.0	18.2	20.0	20.0	90	91	91	91	91	1	30.0	64-139

* Indicates Result is outside Qc Limits
 NC = Not Calculated ND = Not Detected

SDG: C468

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A7B1773003 A7B1773001 A7B1773002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	16.0	16.1	20.0	20.0	80	81	81	1	30.0	61-131
Toluene	UG/M3	17.9	18.1	20.0	20.0	90	91	91	1	30.0	64-137
Ethylbenzene	UG/M3	18.4	18.6	20.0	20.0	92	93	93	1	30.0	66-147
m/p-Xylenes	UG/M3	36.7	37.0	40.0	40.0	92	92	92	0	30.0	65-141
o-Xylene	UG/M3	18.0	18.2	20.0	20.0	90	91	91	1	30.0	64-139

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1775603 A7B1775601 A7B1775602 A7B1775602

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS													
Benzene	UG/M3	15.8	19.7	20.0	20.0	79	98	89	21	30.0	61-131		
Toluene	UG/M3	17.9	22.3	20.0	20.0	90	112	101	22	30.0	64-137		
Ethylbenzene	UG/M3	18.5	23.1	20.0	20.0	93	116	105	22	30.0	66-147		
m/p-Xylenes	UG/M3	36.9	45.9	40.0	40.0	92	115	104	22	30.0	65-141		
o-Xylene	UG/M3	18.2	22.5	20.0	20.0	91	113	102	22	30.0	64-139		

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1775803 A7B1775801 A7B1775802

Analyte	Units of Measure	Concentration				Spike Amount			% Recovery			QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	SB	SBD	AVG	RPD	REC.		
NIOSH METHOD 1501 AROMATIC HYDROCARBONS															
Benzene	UG/M3	16.0	16.1	20.0	20.0	80	81	81	30.0	61-131	1	30.0			
Toluene	UG/M3	18.0	18.1	20.0	20.0	90	91	91	30.0	64-137	1	30.0			
Ethylbenzene	UG/M3	18.8	18.9	20.0	20.0	94	95	95	30.0	66-147	1	30.0			
m/p-Xylenes	UG/M3	37.3	37.6	40.0	40.0	93	94	94	30.0	65-141	1	30.0			
o-Xylene	UG/M3	18.3	18.5	20.0	20.0	92	93	93	30.0	64-139	1	30.0			

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1790103 A7B1790101 A7B1790102

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery		QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	Avg	% RPD		
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	5.11	7.88	10.0	10.0	51	79	43 *	30.0	49-141
Benzo(a)anthracene	UG/M3	5.78	8.23	10.0	10.0	58 *	82	34 *	30.0	59-136
Anthracene	UG/M3	6.49	8.73	10.0	10.0	65	87	29	30.0	60-134
Acenaphthene	UG/M3	6.47	8.07	10.0	10.0	65	81	22	30.0	63-134
Naphthalene	UG/M3	7.21	8.12	10.0	10.0	72	81	12	30.0	63-134
Chrysene	UG/M3	5.84	8.34	10.0	10.0	58 *	83	35 *	30.0	59-137
Benzo(a)pyrene	UG/M3	5.33	7.81	10.0	10.0	53 *	78	38 *	30.0	58-140
Pyrene	UG/M3	5.92	8.37	10.0	10.0	59 *	84	35 *	30.0	64-133
Acenaphthylene	UG/M3	6.58	8.07	10.0	10.0	66	81	20	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	4.71	7.27	10.0	10.0	47	73	43 *	30.0	47-140
Benzo(b)fluoranthene	UG/M3	5.09	7.67	10.0	10.0	51 *	77	41 *	30.0	60-138
Benzo(k)fluoranthene	UG/M3	5.33	7.76	10.0	10.0	53	78	38 *	30.0	45-137
Phenanthrene	UG/M3	6.44	8.62	10.0	10.0	64	86	29	30.0	63-133
Fluorene	UG/M3	6.68	8.65	10.0	10.0	67	86	25	30.0	64-134
Fluoranthene	UG/M3	5.94	8.31	10.0	10.0	59 *	83	34 *	30.0	63-132
Benzo(ghi)perylene	UG/M3	4.03	6.93	10.0	10.0	40 *	69	53 *	30.0	59-139

* Indicates Result is outside Qc Limits
 NC = Not Calculated ND = Not Detected

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1797403 A7B1797401 A7B1797402

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		Avg	% RPD
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	5.90	5.24	10.0	10.0	59	52	56	13	30.0 49-141
Benzo(a)anthracene	UG/M3	7.51	6.70	10.0	10.0	75	67	71	11	30.0 59-136
Anthracene	UG/M3	8.61	8.08	10.0	10.0	86	81	84	6	30.0 60-134
Acenaphthene	UG/M3	7.80	6.30	10.0	10.0	78	63	71	21	30.0 63-134
Naphthalene	UG/M3	9.01	7.68	10.0	10.0	90	77	84	16	30.0 63-134
Chrysene	UG/M3	7.61	6.82	10.0	10.0	76	68	72	11	30.0 59-137
Benzo(a)pyrene	UG/M3	6.37	5.64	10.0	10.0	64	56 *	60	13	30.0 58-140
Pyrene	UG/M3	7.15	6.50	10.0	10.0	72	65	69	10	30.0 64-133
Acenaphthylene	UG/M3	7.73	7.20	10.0	10.0	77	72	75	7	30.0 62-135
Indeno(1,2,3-cd)pyrene	UG/M3	5.11	4.45	10.0	10.0	51	44 *	48	15	30.0 47-140
Benzo(b)fluoranthene	UG/M3	5.90	5.16	10.0	10.0	59 *	52 *	56	13	30.0 60-138
Benzo(k)fluoranthene	UG/M3	6.62	5.96	10.0	10.0	66	60	63	10	30.0 45-137
Phenanthrene	UG/M3	8.41	7.67	10.0	10.0	84	77	81	9	30.0 63-133
Fluorene	UG/M3	8.48	7.77	10.0	10.0	85	78	82	8	30.0 64-134
Fluoranthene	UG/M3	7.30	6.50	10.0	10.0	73	65	69	12	30.0 63-132
Benzo(ghi)perylene	UG/M3	4.04	3.86	10.0	10.0	40 *	39 *	40	2	30.0 59-139

* Indicates Result is outside Qc Limits
 NC = Not Calculated ND = Not Detected

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1798103 A7B1798101 A7B1798102

Analyte	Units of Measure	Concentration				Spike Amount			% Recovery			QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	SB	SBD	AVG	RPD	REC.		
NIOSH METHOD 1501 AROMATIC HYDROCARBONS															
Benzene	UG/M3	15.1	16.9	20.0	20.0	76	85	81	11	30.0	61-131				
Toluene	UG/M3	16.9	19.1	20.0	20.0	85	96	91	12	30.0	64-137				
Ethylbenzene	UG/M3	17.6	20.1	20.0	20.0	88	101	95	14	30.0	66-147				
m/p-Xylenes	UG/M3	34.9	40.0	40.0	40.0	87	100	94	14	30.0	65-141				
o-Xylene	UG/M3	17.4	19.9	20.0	20.0	87	100	94	14	30.0	64-139				

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1811303 A7B1811301 A7B1811302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG		% RPD
NIOSH METHOD 1501 AROMATIC HYDROCARBONS										
Benzene	UG/M3	15.4	15.5	20.0	20.0	77	78	78	1	30.0 61-131
Toluene	UG/M3	17.6	17.5	20.0	20.0	88	88	88	0	30.0 64-137
Ethylbenzene	UG/M3	18.6	18.3	20.0	20.0	93	92	93	1	30.0 66-147
m/p-Xylenes	UG/M3	37.1	36.2	40.0	40.0	93	91	92	2	30.0 65-141
o-Xylene	UG/M3	18.5	18.0	20.0	20.0	92	90	91	2	30.0 64-139

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1817503 A7B1817501 A7B1817502

Analyte	Units of Measure	Concentration				Spike Amount			% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SBD	Avg	SB	SBD	Avg	SB	SBD	Avg	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS														
Benzene	UG/M3	16.8	17.2	20.0	84	86	85	30.0	2	30.0	61-131			
Toluene	UG/M3	18.8	19.3	20.0	94	97	96	30.0	3	30.0	64-137			
Ethylbenzene	UG/M3	19.5	19.9	20.0	98	100	99	30.0	2	30.0	66-147			
m/p-Xylenes	UG/M3	38.7	39.6	40.0	97	99	98	30.0	2	30.0	65-141			
o-Xylene	UG/M3	18.9	19.4	20.0	95	97	96	30.0	2	30.0	64-139			

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1829003 A7B1829001 A7B1829002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		Avg	% RPD
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	8.93	9.05	10.0	10.0	89	90	30.0	1	49-141
Benzo(a)anthracene	UG/M3	9.40	9.36	10.0	10.0	94	94	30.0	0	59-136
Anthracene	UG/M3	9.64	9.67	10.0	10.0	96	97	30.0	1	60-134
Acenaphthene	UG/M3	9.44	9.52	10.0	10.0	94	95	30.0	1	63-134
Naphthalene	UG/M3	9.19	9.35	10.0	10.0	92	94	30.0	2	63-134
Chrysene	UG/M3	9.36	9.31	10.0	10.0	94	93	30.0	1	59-137
Benzo(a)pyrene	UG/M3	9.18	9.12	10.0	10.0	92	91	30.0	1	58-140
Pyrene	UG/M3	9.64	9.60	10.0	10.0	96	96	30.0	0	64-133
Acenaphthylene	UG/M3	9.51	9.49	10.0	10.0	95	95	30.0	0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	9.07	9.05	10.0	10.0	91	90	30.0	1	47-140
Benzo(b)fluoranthene	UG/M3	9.17	9.14	10.0	10.0	92	91	30.0	1	60-138
Benzo(k)fluoranthene	UG/M3	9.09	9.07	10.0	10.0	91	91	30.0	0	45-137
Phenanthrene	UG/M3	9.60	9.66	10.0	10.0	96	97	30.0	1	63-133
Fluorene	UG/M3	9.59	9.68	10.0	10.0	96	97	30.0	1	64-134
Fluoranthene	UG/M3	9.58	9.58	10.0	10.0	96	96	30.0	0	63-132
Benzo(ghi)perylene	UG/M3	9.07	9.08	10.0	10.0	91	91	30.0	0	59-139

* Indicates Result is outside Qc Limits
 NC = Not Calculated ND = Not Detected

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1840703 A7B1840701 A7B1840702 A7B1840702

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SBD	SBD	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	16.2	16.6	20.0	20.0	81	83	82	2	30.0	61-131
Toluene	UG/M3	18.0	18.6	20.0	20.0	90	93	92	3	30.0	64-137
Ethylbenzene	UG/M3	18.3	19.1	20.0	20.0	92	96	94	4	30.0	66-147
m/p-Xylenes	UG/M3	36.5	38.1	40.0	40.0	91	95	93	4	30.0	65-141
o-Xylene	UG/M3	17.9	18.7	20.0	20.0	90	94	92	4	30.0	64-139

SDG: C468
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1860103 A7B1860101 A7B1860102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		Avg	% RPD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.88	8.28	10.0	10.0	89	83	86	7	30.0	49-141
Benzo(a)anthracene	UG/M3	9.32	8.79	10.0	10.0	93	88	91	6	30.0	59-136
Anthracene	UG/M3	9.68	9.24	10.0	10.0	97	92	95	5	30.0	60-134
Acenaphthene	UG/M3	9.45	8.75	10.0	10.0	94	88	91	6	30.0	63-134
Naphthalene	UG/M3	9.13	8.02	10.0	10.0	91	80	86	13	30.0	63-134
Chrysene	UG/M3	9.34	8.80	10.0	10.0	93	88	91	6	30.0	59-137
Benzo(a)pyrene	UG/M3	8.94	8.39	10.0	10.0	89	84	87	6	30.0	58-140
Pyrene	UG/M3	9.66	9.12	10.0	10.0	97	91	94	6	30.0	64-133
Acenaphthylene	UG/M3	9.48	8.78	10.0	10.0	95	88	92	8	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	8.79	8.18	10.0	10.0	88	82	85	7	30.0	47-140
Benzo(b)fluoranthene	UG/M3	8.93	8.34	10.0	10.0	89	83	86	7	30.0	60-138
Benzo(k)fluoranthene	UG/M3	8.86	8.20	10.0	10.0	89	82	86	8	30.0	45-137
Phenanthrene	UG/M3	9.70	9.15	10.0	10.0	97	92	95	5	30.0	63-133
Fluorene	UG/M3	9.68	9.02	10.0	10.0	97	90	94	7	30.0	64-134
Fluoranthene	UG/M3	9.59	9.07	10.0	10.0	96	91	94	5	30.0	63-132
Benzo(ghi)perylene	UG/M3	8.67	8.21	10.0	10.0	87	82	85	6	30.0	59-139

* Indicates Result is outside Qc Limits
 NC = Not Calculated ND = Not Detected

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	DUP ANASORB A07-D287 A7D28704	DUP ANASORB SE A07-C859 A7C85908	DUP XAD SE A07-C934 A7C93408	DUPE XAD A07-C616 A7C61608	DUPLICATE ANA NE A07-D155 A7D15507
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/14/2007 15:30 11/15/2007 08:45 11/16/2007 16:19 - YES AIR 2.0 1.077 LITERS	11/06/2007 15:30 11/07/2007 08:45 11/12/2007 13:22 - YES AIR 2.0 1.368 LITERS	NA	NA	11/12/2007 15:30 11/13/2007 08:45 11/14/2007 16:19 - YES AIR 2.0 1.031 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	DUP ANASORB A07-D287 A7D28704	DUP ANASORB SE A07-C859 A7C85908	DUP XAD SE A07-C934 A7C93408	DUPE XAD A07-C616 A7C61608	DUPLICATE ANA NE A07-D155 A7D15507
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/07/2007 15:30 11/08/2007 08:45 11/10/2007 20:16 - YES AIR 1.0 1.318 LITERS	10/30/2007 16:00 11/01/2007 09:15 11/02/2007 03:04 - YES AIR 1.0 0.554 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NE ANASORB A07-C468 A7C46802	NE ANASORB A07-C504 A7C50401	NE ANASORB A07-C616 A7C61602	NE ANASORB A07-C618 A7C61801	NE ANASORB A07-C857 A7C85701
Sample Date	10/26/2007 13:20	10/29/2007 15:30	10/30/2007 16:00	10/31/2007 16:00	11/06/2007 15:30
Received Date	10/29/2007 09:30	10/30/2007 09:00	11/01/2007 09:15	11/01/2007 09:15	11/07/2007 08:45
Extraction Date	10/29/2007 16:50	10/30/2007 17:54	11/03/2007 15:42	11/07/2007 13:47	11/07/2007 13:11
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.852	0.843	0.782	0.98	0.964
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NE ANASORB DUP A07-C618 A7C61809	NE DUPE ANASORB A07-C503 A7C50301	NE XAD A07-C469 A7C46909	NE XAD A07-C504 A7C50402	NE XAD A07-C616 A7C61603
Sample Date	10/31/2007 16:00	10/29/2007 15:30			
Received Date	11/01/2007 09:15	10/30/2007 09:00			
Extraction Date	11/12/2007 10:39	10/30/2007 15:46			
Analysis Date	-	-	NA	NA	NA
Extraction HT Met?	YES	YES			
Analytical HT Met?	AIR	AIR			
Sample Matrix	1.0	2.0			
Dilution Factor	0.5 LITERS	0.897 LITERS			
Sample wt/vol % Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NE ANASORB DUP A07-C618 A7C61809	NE DUPE ANASORB A07-C503 A7C50301	NE XAD A07-C469 A7C46909	NE XAD A07-C504 A7C50402	NE XAD A07-C616 A7C61603
Sample Date					
Received Date			10/26/2007 13:20	10/29/2007 15:30	10/30/2007 16:00
Extraction Date			10/29/2007 09:30	10/30/2007 09:00	11/01/2007 09:15
Analysis Date			11/01/2007 19:33	11/01/2007 22:27	11/02/2007 01:20
Extraction HT Met?	NA	NA	-	-	-
Analytical HT Met?			YES	YES	YES
Sample Matrix			AIR	AIR	AIR
Dilution Factor			1.0	1.0	1.0
Sample wt/vol % Dry			0.637 LITERS	0.838 LITERS	0.852 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NE XAD A07-C618 A7C61802	NE XAD A07-C859 A7C85901	NORTHEAST ANASORB A07-C469 A7C46902	NORTHEAST ANASORB A07-C761 A7C76101	NORTHEAST ANASORB A07-C766 A7C76601
Sample Date			10/25/2007 16:00	11/02/2007 15:00	11/01/2007 15:30
Received Date			10/29/2007 09:30	11/03/2007 09:15	11/03/2007 09:15
Extraction Date			10/29/2007 18:08	11/07/2007 15:36	11/06/2007 12:16
Analysis Date	NA	NA	-	-	-
Extraction HT Met?			YES	YES	YES
Analytical HT Met?			AIR	AIR	AIR
Sample Matrix			2.0	2.0	2.0
Dilution Factor			0.633	0.839	0.859
Sample wt/vol % Dry			LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NE XAD A07-C618 A7C61802	NE XAD A07-C859 A7C85901	NORTHEAST ANASORB A07-C469 A7C46902	NORTHEAST ANASORB A07-C761 A7C76101	NORTHEAST ANASORB A07-C766 A7C76601
Sample Date	10/31/2007 16:00	11/06/2007 15:30			
Received Date	11/01/2007 09:15	11/07/2007 08:45			
Extraction Date	11/08/2007 17:45	11/10/2007 16:13			
Analysis Date	-	-	NA	NA	NA
Extraction HT Met?	YES	YES			
Analytical HT Met?	AIR	AIR			
Sample Matrix	1.0	1.0			
Dilution Factor	0.923	1.02			
Sample wt/vol % Dry	LITERS	LITERS			

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHEAST ANASORB A07-C812 A7C81201	NORTHEAST ANASORB A07-C934 A7C93401	NORTHEAST ANASORB A07-D034 A7D03401	NORTHEAST ANASORB A07-D109 A7D10901	NORTHEAST ANASORB A07-D154 A7D15401
Sample Date	11/05/2007 15:00	11/07/2007 15:30	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30
Received Date	11/06/2007 09:00	11/08/2007 08:45	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45
Extraction Date	11/07/2007 21:01	11/12/2007 14:21	11/14/2007 00:00	11/13/2007 16:58	11/13/2007 21:42
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.894	0.97	0.92	0.935	0.957
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHEAST ANASORB A07-D213 A7D21301	NORTHEAST ANASORB A07-D287 A7D28701	NORTHEAST ANASORB-D A07-D034 A7D03408	NORTHEAST XAD A07-C469 A7C46903	NORTHEAST XAD A07-C764 A7C76401
Sample Date	11/13/2007 15:30	11/14/2007 15:30	11/08/2007 15:30		
Received Date	11/14/2007 08:45	11/15/2007 08:45	11/09/2007 08:45		
Extraction Date					
Analysis Date	11/14/2007 17:29	11/16/2007 15:49	11/13/2007 16:48		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	AIR	AIR	AIR		
Dilution Factor	2.0	2.0	2.0		
Sample wt/vol % Dry	0.94 LITERS	0.947 LITERS	1.18 LITERS		
				NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHEAST ANASORB A07-D213 A7D21301	NORTHEAST ANASORB A07-D287 A7D28701	NORTHEAST ANASORB-D A07-D034 A7D03408	NORTHEAST XAD A07-C469 A7C46903	NORTHEAST XAD A07-C764 A7C76401
Sample Date				10/25/2007 16:00	11/01/2007 15:30
Received Date				10/29/2007 09:30	11/03/2007 09:15
Extraction Date					
Analysis Date				11/01/2007 17:49	11/08/2007 21:49
Extraction HT Met?	NA	NA	NA	-	-
Analytical HT Met?				YES	YES
Sample Matrix				AIR	AIR
Dilution Factor				1.0	1.0
Sample wt/vol % Dry				0.695 LITERS	0.858 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHEAST XAD A07-C812 A7C81202	NORTHEAST XAD A07-C934 A7C93402	NORTHEAST XAD A07-D034 A7D03402	NORTHEAST XAD A07-D109 A7D10902	NORTHEAST XAD A07-D155 A7D15501
Sample Date	11/05/2007 15:00	11/07/2007 15:30	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30
Received Date	11/06/2007 09:00	11/08/2007 08:45	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45
Extraction Date	11/09/2007 01:17	11/10/2007 18:32	11/15/2007 03:48	11/15/2007 01:29	11/15/2007 06:42
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	0.999	0.926	1.024	1.032	1.046
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHEAST XAD A07-D213 A7D21302	NORTHEAST XAD A07-D287 A7D28705	NORTHWEST ANASORB A07-C468 A7C46801	NORTHWEST ANASORB A07-C763 A7C76301	NORTHWEST ANASORB A07-C764 A7C76402
Sample Date			10/25/2007 15:30	11/02/2007 12:30	11/01/2007 15:30
Received Date			10/29/2007 09:30	11/03/2007 09:15	11/03/2007 09:15
Extraction Date			10/29/2007 16:31	11/06/2007 11:36	11/07/2007 16:06
Analysis Date	NA	NA	-	-	-
Extraction HT Met?			YES	YES	YES
Analytical HT Met?			AIR	AIR	AIR
Sample Matrix			2.0	2.0	2.0
Dilution Factor			0.611	0.762	0.952
Sample wt/vol % Dry			LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHEAST XAD A07-D213 A7D21302	NORTHEAST XAD A07-D287 A7D28705	NORTHWEST ANASORB A07-C468 A7C46801	NORTHWEST ANASORB A07-C763 A7C76301	NORTHWEST ANASORB A07-C764 A7C76402
Sample Date	11/13/2007 15:30	11/14/2007 15:30			
Received Date	11/14/2007 08:45	11/15/2007 08:45			
Extraction Date	11/15/2007 09:01	11/20/2007 19:32			
Analysis Date	-	-			
Extraction HT Met?	YES	YES			
Analytical HT Met?	AIR	AIR			
Sample Matrix	1.0	1.0			
Dilution Factor	1.025	1.031			
Sample wt/vol % Dry	LITERS	LITERS			
			NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHWEST ANASORB A07-C812 A7C81203	NORTHWEST ANASORB A07-C934 A7C93403	NORTHWEST ANASORB A07-D034 A7D03403	NORTHWEST ANASORB A07-D109 A7D10903	NORTHWEST ANASORB A07-D155 A7D15502
Sample Date	11/05/2007 15:00	11/07/2007 15:30	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30
Received Date	11/06/2007 09:00	11/08/2007 08:45	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45
Extraction Date	11/07/2007 21:10	11/13/2007 11:38	11/14/2007 00:10	11/13/2007 17:08	11/14/2007 15:59
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.96	1.023	0.987	1.039	1.012
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHWEST ANASORB A07-D213 A7D21303	NORTHWEST ANASORB A07-D286 A7D28601	NORTHWEST XAD A07-C469 A7C46901	NORTHWEST XAD A07-C761 A7C76102	NORTHWEST XAD A07-C764 A7C76403
Sample Date	11/13/2007 15:30	11/14/2007 15:30			
Received Date	11/14/2007 08:45	11/15/2007 08:45			
Extraction Date	11/14/2007 17:39	11/16/2007 13:32			
Analysis Date	-	-	NA	NA	NA
Extraction HT Met?	YES	YES			
Analytical HT Met?	AIR	AIR			
Sample Matrix	2.0	2.0			
Dilution Factor	1.036 LITERS	1.034 LITERS			
Sample wt/vol % Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHWEST ANASORB A07-D213 A7D21303	NORTHWEST ANASORB A07-D286 A7D28601	NORTHWEST XAD A07-C469 A7C46901	NORTHWEST XAD A07-C761 A7C76102	NORTHWEST XAD A07-C764 A7C76403
Sample Date			10/25/2007 15:30	11/02/2007 15:00	11/01/2007 15:30
Received Date			10/29/2007 09:30	11/03/2007 09:15	11/03/2007 09:15
Extraction Date			11/01/2007 17:14	11/08/2007 20:04	11/08/2007 22:23
Analysis Date	NA	NA	-	-	-
Extraction HT Met?			YES	YES	YES
Analytical HT Met?			AIR	AIR	AIR
Sample Matrix			1.0	1.0	1.0
Dilution Factor			0.875 LITERS	1.095 LITERS	1.066 LITERS
Sample wt/vol % Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHWEST XAD A07-C810 A7C81001	NORTHWEST XAD A07-C934 A7C93404	NORTHWEST XAD A07-D034 A7D03404	NORTHWEST XAD A07-D109 A7D10904	NORTHWEST XAD A07-D155 A7D15503
Sample Date	11/05/2007 15:00	11/07/2007 15:30	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30
Received Date	11/06/2007 09:00	11/08/2007 08:45	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45
Extraction Date	11/08/2007 14:51	11/10/2007 19:06	11/15/2007 04:23	11/15/2007 02:03	11/15/2007 07:17
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.155	1.103	1.134	1.23	1.117
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHWEST XAD A07-D213 A7D21304	NORTHWEST XAD A07-D286 A7D28602	NW ANASORB A07-C469 A7C46908	NW ANASORB A07-C504 A7C50403	NW ANASORB A07-C615 A7C61501
Sample Date	NA	NA	10/26/2007 13:10	10/29/2007 15:30	10/30/2007 16:00
Received Date			10/29/2007 09:30	10/30/2007 09:00	11/01/2007 09:15
Extraction Date			10/29/2007 18:37	10/30/2007 18:03	11/03/2007 12:46
Analysis Date			-	-	-
Extraction HT Met?			YES	YES	YES
Analytical HT Met?			AIR	AIR	AIR
Sample Matrix			2.0	2.0	2.0
Dilution Factor			0.627	0.908	0.981
Sample wt/vol % Dry			LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHWEST XAD A07-D213 A7D21304	NORTHWEST XAD A07-D286 A7D28602	NW ANASORB A07-C469 A7C46908	NW ANASORB A07-C504 A7C50403	NW ANASORB A07-C615 A7C61501
Sample Date	11/13/2007 15:30	11/14/2007 15:30			
Received Date	11/14/2007 08:45	11/15/2007 08:45			
Extraction Date	11/15/2007 09:36	11/20/2007 13:09			
Analysis Date	-	-	NA	NA	NA
Extraction HT Met?	YES	YES			
Analytical HT Met?	AIR	AIR			
Sample Matrix	1.0	1.0			
Dilution Factor	1.239	1.169			
Sample wt/vol % Dry	LITERS	LITERS			

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NW ANASORB A07-C618 A7C61803	NW ANASORB A07-C859 A7C85902	NW XAD A07-C469 A7C46910	NW XAD A07-C504 A7C50404	NW XAD A07-C616 A7C61601
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	10/31/2007 16:00 11/01/2007 09:15 11/07/2007 13:57 - YES AIR 2.0 0.937 LITERS	11/06/2007 15:30 11/07/2007 08:45 11/12/2007 12:52 - YES AIR 2.0 1.027 LITERS	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NW ANASORB A07-C618 A7C61803	NW ANASORB A07-C859 A7C85902	NW XAD A07-C469 A7C46910	NW XAD A07-C504 A7C50404	NW XAD A07-C616 A7C61601
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	10/26/2007 13:10 10/29/2007 09:30 11/01/2007 20:08 - YES AIR 1.0 0.84 LITERS	10/29/2007 15:30 10/30/2007 09:00 11/01/2007 23:01 - YES AIR 1.0 1.183 LITERS	10/30/2007 16:00 11/01/2007 09:15 11/02/2007 00:45 - YES AIR 1.0 1.287 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NW XAD A07-C618 A7C61804	NW XAD A07-C859 A7C85903	OFFSITE LOC ANASORB A07-D213 A7D21308	OFFSITE LOCATION XAD A07-C764 A7C76408	SE ANASORB A07-C469 A7C46911
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/13/2007 15:30 11/14/2007 08:45 11/14/2007 17:59 - YES AIR 2.0 1.2 LITERS	NA	10/26/2007 13:15 10/29/2007 09:30 10/29/2007 18:47 - YES AIR 2.0 0.591 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NW XAD A07-C618 A7C61804	NW XAD A07-C859 A7C85903	OFFSITE LOC ANASORB A07-D213 A7D21308	OFFSITE LOCATION XAD A07-C764 A7C76408	SE ANASORB A07-C469 A7C46911
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	10/31/2007 16:00 11/01/2007 09:15 11/08/2007 18:20 - YES AIR 1.0 1.308 LITERS	11/06/2007 15:30 11/07/2007 08:45 11/10/2007 16:47 - YES AIR 1.0 1.166 LITERS	NA	11/01/2007 15:30 11/03/2007 09:15 11/09/2007 00:43 - YES AIR 1.0 1.086 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SE ANASORB A07-C504 A7C50405	SE ANASORB A07-C616 A7C61606	SE ANASORB A07-C617 A7C61701	SE ANASORB A07-C859 A7C85904	SE XAD A07-C469 A7C46913
Sample Date	10/29/2007 15:30	10/30/2007 16:00	10/31/2007 16:00	11/06/2007 15:30	
Received Date	10/30/2007 09:00	11/01/2007 09:15	11/01/2007 09:15	11/07/2007 08:45	
Extraction Date	10/30/2007 18:13	11/03/2007 16:02	11/03/2007 13:06	11/12/2007 13:02	
Analysis Date	-	-	-	-	NA
Extraction HT Met?	YES	YES	YES	YES	
Analytical HT Met?	AIR	AIR	AIR	AIR	
Sample Matrix	2.0	2.0	2.0	2.0	
Dilution Factor	0.86	0.818	0.539	0.516	
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SE ANASORB A07-C504 A7C50405	SE ANASORB A07-C616 A7C61606	SE ANASORB A07-C617 A7C61701	SE ANASORB A07-C859 A7C85904	SE XAD A07-C469 A7C46913
Sample Date					10/26/2007 13:15
Received Date					10/29/2007 09:30
Extraction Date					11/01/2007 20:42
Analysis Date	NA	NA	NA	NA	-
Extraction HT Met?					YES
Analytical HT Met?					AIR
Sample Matrix					1.0
Dilution Factor					0.624
Sample wt/vol % Dry					LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SE XAD A07-C504 A7C50406	SE XAD A07-C616 A7C61607	SE XAD A07-C618 A7C61806	SE XAD A07-C859 A7C85905	SOUTHEAST ANASORB A07-C469 A7C46907
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	NA	10/25/2007 16:30 10/29/2007 09:30 10/29/2007 18:28 - YES AIR 2.0 0.784 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SE XAD A07-C504 A7C50406	SE XAD A07-C616 A7C61607	SE XAD A07-C618 A7C61806	SE XAD A07-C859 A7C85905	SOUTHEAST ANASORB A07-C469 A7C46907
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	10/29/2007 15:30 10/30/2007 09:00 11/01/2007 23:36 - YES AIR 1.0 0.871 LITERS	10/30/2007 16:00 11/01/2007 09:15 11/02/2007 02:30 - YES AIR 1.0 0.878 LITERS	10/31/2007 16:00 11/01/2007 09:15 11/08/2007 18:55 - YES AIR 1.0 0.973 LITERS	11/06/2007 15:30 11/07/2007 08:45 11/10/2007 17:22 - YES AIR 1.0 1.026 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTHEAST ANASORB A07-C761 A7C76103	SOUTHEAST ANASORB A07-C764 A7C76404	SOUTHEAST ANASORB A07-C812 A7C81204	SOUTHEAST ANASORB A07-C934 A7C93405	SOUTHEAST ANASORB A07-D033 A7D03301
Sample Date	11/02/2007 15:00	11/01/2007 15:30	11/05/2007 15:00	11/07/2007 15:30	11/08/2007 15:30
Received Date	11/03/2007 09:15	11/03/2007 09:15	11/06/2007 09:00	11/08/2007 08:45	11/09/2007 08:45
Extraction Date	11/07/2007 15:46	11/07/2007 16:16	11/07/2007 21:20	11/13/2007 11:48	11/12/2007 12:03
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.696	0.793	0.886	0.641	0.527
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTHEAST ANASORB A07-D116 A7D10905	SOUTHEAST ANASORB A07-D154 A7D15402	SOUTHEAST ANASORB A07-D212 A7D21201	SOUTHEAST ANASORB A07-D287 A7D28702	SOUTHEAST DUPE A07-D109 A7D10909
Sample Date	11/09/2007 14:30	11/12/2007 15:30	11/13/2007 15:30	11/14/2007 15:30	11/09/2007 14:30
Received Date	11/10/2007 08:50	11/13/2007 08:45	11/14/2007 08:45	11/15/2007 08:45	11/10/2007 08:50
Extraction Date	11/13/2007 17:18	11/13/2007 22:02	11/14/2007 14:20	11/16/2007 15:59	11/13/2007 17:38
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.673	0.868	0.844	1.007	1.355
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTHEAST XAD A07-C469 A7C46906	SOUTHEAST XAD A07-C761 A7C76104	SOUTHEAST XAD A07-C764 A7C76405	SOUTHEAST XAD A07-C812 A7C81205	SOUTHEAST XAD A07-C934 A7C93406
Sample Date	10/25/2007 16:30	11/02/2007 15:00	11/01/2007 15:30	11/05/2007 15:00	11/07/2007 15:30
Received Date	10/29/2007 09:30	11/03/2007 09:15	11/03/2007 09:15	11/06/2007 09:00	11/08/2007 08:45
Extraction Date	11/01/2007 18:58	11/08/2007 20:39	11/08/2007 22:58	11/09/2007 01:52	11/10/2007 19:41
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	0.764	0.884	0.749	0.965	0.997
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTHEAST XAD A07-D034 A7D03405	SOUTHEAST XAD A07-D109 A7D10906	SOUTHEAST XAD A07-D155 A7D15504	SOUTHEAST XAD A07-D213 A7D21305	SOUTHEAST XAD A07-D287 A7D28706
Sample Date	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30	11/13/2007 15:30	11/14/2007 15:30
Received Date	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45	11/14/2007 08:45	11/15/2007 08:45
Extraction Date	11/15/2007 04:57	11/15/2007 02:38	11/15/2007 07:51	11/15/2007 10:11	11/20/2007 20:07
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.025 LITERS	1.027 LITERS	1.072 LITERS	0.986 LITERS	1.11 LITERS
Sample wt/vol % Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTHWEST ANASORB A07-C469 A7C46905	SOUTHWEST ANASORB A07-C761 A7C76105	SOUTHWEST ANASORB A07-C764 A7C76406	SOUTHWEST ANASORB A07-C812 A7C81206	SOUTHWEST ANASORB A07-C934 A7C93407
Sample Date	10/25/2007 16:15	11/02/2007 15:00	11/01/2007 15:30	11/05/2007 15:00	11/07/2007 15:30
Received Date	10/29/2007 09:30	11/03/2007 09:15	11/03/2007 09:15	11/06/2007 09:00	11/08/2007 08:45
Extraction Date	10/29/2007 18:18	11/07/2007 15:56	11/07/2007 16:26	11/07/2007 21:30	11/13/2007 11:58
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.928	0.683	0.66	0.734	0.788
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTHWEST ANASORB A07-D034 A7D03406	SOUTHWEST ANASORB A07-D109 A7D10907	SOUTHWEST ANASORB A07-D155 A7D15505	SOUTHWEST ANASORB A07-D213 A7D21306	SOUTHWEST ANASORB A07-D287 A7D28703
Sample Date	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30	11/13/2007 15:30	11/14/2007 15:30
Received Date	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45	11/14/2007 08:45	11/15/2007 08:45
Extraction Date	11/14/2007 00:19	11/13/2007 17:28	11/14/2007 16:09	11/14/2007 17:49	11/16/2007 16:09
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.736	0.736	0.716	0.733	0.789
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTHWEST XAD A07-C469 A7C46904	SOUTHWEST XAD A07-C761 A7C76106	SOUTHWEST XAD A07-C764 A7C76407	SOUTHWEST XAD A07-C812 A7C81207	SOUTHWEST XAD A07-C932 A7C93201
Sample Date	10/25/2007 16:15	11/02/2007 15:00	11/01/2007 15:30	11/05/2007 15:00	11/07/2007 15:30
Received Date	10/29/2007 09:30	11/03/2007 09:15	11/03/2007 09:15	11/06/2007 09:00	11/08/2007 08:45
Extraction Date	11/01/2007 18:24	11/08/2007 21:14	11/09/2007 00:08	11/09/2007 02:27	11/08/2007 16:01
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.004	1.279	1.116	1.31	1.339
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTHWEST XAD A07-D034 A7D03407	SOUTHWEST XAD A07-D109 A7D10908	SOUTHWEST XAD A07-D155 A7D15506	SOUTHWEST XAD A07-D213 A7D21307	SOUTHWEST XAD A07-D287 A7D28707
Sample Date	11/08/2007 15:30	11/09/2007 14:30	11/12/2007 15:30	11/13/2007 15:30	11/14/2007 15:30
Received Date	11/09/2007 08:45	11/10/2007 08:50	11/13/2007 08:45	11/14/2007 08:45	11/15/2007 08:45
Extraction Date	11/15/2007 06:07	11/15/2007 03:13	11/15/2007 08:26	11/15/2007 10:46	11/20/2007 20:41
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.374	1.253	1.352	1.376	1.336
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SW ANASORB A07-C469 A7C46912	SW ANASORB A07-C504 A7C50407	SW ANASORB A07-C616 A7C61604	SW ANASORB A07-C618 A7C61807	SW ANASORB A07-C859 A7C85906
Sample Date	10/26/2007 13:05	10/29/2007 15:30	10/30/2007 16:00	10/31/2007 16:00	11/06/2007 15:30
Received Date	10/29/2007 09:30	10/30/2007 09:00	11/01/2007 09:15	11/01/2007 09:15	11/07/2007 08:45
Extraction Date	10/29/2007 18:57	10/30/2007 18:33	11/03/2007 15:52	11/07/2007 14:07	11/12/2007 13:12
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.484	0.68	0.73	0.565	0.775
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SW XAD A07-C469 A7C46914	SW XAD A07-C504 A7C50408	SW XAD A07-C616 A7C61605	SW XAD A07-C618 A7C61808	SW XAD A07-C859 A7C85907
Sample Date	10/26/2007 13:05	10/29/2007 15:30	10/30/2007 16:00	10/31/2007 16:00	11/06/2007 15:30
Received Date	10/29/2007 09:30	10/30/2007 09:00	11/01/2007 09:15	11/01/2007 09:15	11/07/2007 08:45
Extraction Date	11/01/2007 21:52	11/02/2007 00:11	11/02/2007 01:55	11/08/2007 19:29	11/10/2007 17:57
Analytical HT Met?	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	0.851 LITERS	1.204 LITERS	1.313 LITERS	1.065 LITERS	1.387 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-C468 A7B1730701	Matrix Spike Blank A07-C504 A7B1731701	Matrix Spike Blank A07-C504 A7B1749701	Matrix Spike Blank A07-C616 A7B1755801	Matrix Spike Blank A07-C766 A7B1773001
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	10/29/2007 15:51 - - AIR 1.0 0.5 LITERS	10/30/2007 15:07 - - AIR 1.0 0.5 LITERS	NA	11/03/2007 11:38 - - AIR 1.0 0.5 LITERS	11/06/2007 11:17 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-C468 A7B1730701	Matrix Spike Blank A07-C504 A7B1731701	Matrix Spike Blank A07-C504 A7B1749701	Matrix Spike Blank A07-C616 A7B1755801	Matrix Spike Blank A07-C766 A7B1773001
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/01/2007 16:05 - - AIR 1.0 1.0 LITERS	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-C857 A7B1775601	Matrix Spike Blank A07-C812 A7B1775801	Matrix Spike Blank A07-C618 A7B1790101	Matrix Spike Blank A07-C934 A7B1797401	Matrix Spike Blank A07-C934 A7B1798101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/07/2007 12:12 - - AIR 1.0 0.5 LITERS	11/07/2007 19:42 - - AIR 1.0 0.5 LITERS	NA	NA	11/12/2007 10:19 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-C857 A7B1775601	Matrix Spike Blank A07-C812 A7B1775801	Matrix Spike Blank A07-C618 A7B1790101	Matrix Spike Blank A07-C934 A7B1797401	Matrix Spike Blank A07-C934 A7B1798101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/08/2007 13:41 - - AIR 1.0 1.0 LITERS	11/10/2007 14:28 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D109 A7B1811301	Matrix Spike Blank A07-D155 A7B1817501	Matrix Spike Blank A07-D155 A7B1829001	Matrix Spike Blank A07-D286 A7B1840701	Matrix Spike Blank A07-D286 A7B1860101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/13/2007 13:30 - - AIR 1.0 0.5 LITERS	11/14/2007 14:00 - - AIR 1.0 0.5 LITERS	NA	11/16/2007 12:46 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D109 A7B1811301	Matrix Spike Blank A07-D155 A7B1817501	Matrix Spike Blank A07-D155 A7B1829001	Matrix Spike Blank A07-D286 A7B1840701	Matrix Spike Blank A07-D286 A7B1860101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/15/2007 00:19 - - AIR 1.0 1.0 LITERS	NA	11/20/2007 12:00 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-C469 A7B1730702	Matrix Spike Blk Dup A07-C503 A7B1731702	Matrix Spike Blk Dup A07-C504 A7B1749702	Matrix Spike Blk Dup A07-C615 A7B1755802	Matrix Spike Blk Dup A07-C763 A7B1773002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	10/29/2007 16:01 - - AIR 1.0 0.5 LITERS	10/30/2007 15:17 - - AIR 1.0 0.5 LITERS	NA	11/03/2007 11:48 - - AIR 1.0 0.5 LITERS	11/06/2007 11:26 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-C469 A7B1730702	Matrix Spike Blk Dup A07-C503 A7B1731702	Matrix Spike Blk Dup A07-C504 A7B1749702	Matrix Spike Blk Dup A07-C615 A7B1755802	Matrix Spike Blk Dup A07-C763 A7B1773002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/01/2007 16:39 - - AIR 1.0 1.0 LITERS	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-C857 A7B1775602	Matrix Spike Blk Dup A07-C812 A7B1775802	Matrix Spike Blk Dup A07-C932 A7B1790102	Matrix Spike Blk Dup A07-C934 A7B1797402	Matrix Spike Blk Dup A07-C859 A7B1798102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/07/2007 12:22 - - AIR 1.0 0.5 LITERS	11/07/2007 19:52 - - AIR 1.0 0.5 LITERS	NA	NA	11/12/2007 10:29 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-C857 A7B1775602	Matrix Spike Blk Dup A07-C812 A7B1775802	Matrix Spike Blk Dup A07-C932 A7B1790102	Matrix Spike Blk Dup A07-C934 A7B1797402	Matrix Spike Blk Dup A07-C859 A7B1798102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/08/2007 14:16 - - AIR 1.0 1.0 LITERS	11/10/2007 15:03 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-D116 A7B1811302	Matrix Spike Blk Dup A07-D213 A7B1817502	Matrix Spike Blk Dup A07-D213 A7B1829002	Matrix Spike Blk Dup A07-D286 A7B1840702	Matrix Spike Blk Dup A07-D287 A7B1860102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/13/2007 13:40 - - AIR 1.0 0.5 LITERS	11/14/2007 14:10 - - AIR 1.0 0.5 LITERS	NA	11/16/2007 18:55 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-D116 A7B1811302	Matrix Spike Blk Dup A07-D213 A7B1817502	Matrix Spike Blk Dup A07-D213 A7B1829002	Matrix Spike Blk Dup A07-D286 A7B1840702	Matrix Spike Blk Dup A07-D287 A7B1860102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/15/2007 00:54 - - AIR 1.0 1.0 LITERS	NA	11/20/2007 12:34 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-C468 A7B1730703	Method Blank(VBLK_) A07-C503 A7B1731703	Method Blank(VBLK_) A07-C616 A7B1749703	Method Blank(VBLK_) A07-C616 A7B1755803	Method Blank(VBLK_) A07-C763 A7B1773003
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	10/29/2007 15:42 - - AIR 1.0 0.5 LITERS	10/30/2007 14:57 - - AIR 1.0 0.5 LITERS	NA	11/03/2007 11:28 - - AIR 1.0 0.5 LITERS	11/06/2007 11:07 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-C468 A7B1730703	Method Blank(VBLK_) A07-C503 A7B1731703	Method Blank(VBLK_) A07-C616 A7B1749703	Method Blank(VBLK_) A07-C616 A7B1755803	Method Blank(VBLK_) A07-C763 A7B1773003
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/01/2007 15:30 - - AIR 1.0 1.0 LITERS	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK__) A07-C857 A7B1775603	Method Blank(VBLK__) A07-C812 A7B1775803	Method Blank(VBLK__) A07-C932 A7B1790103	Method Blank(VBLK__) A07-C859 A7B1797403	Method Blank(VBLK__) A07-C618 A7B1798103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/07/2007 12:02 - - AIR 1.0 0.5 LITERS	11/07/2007 19:33 - - AIR 1.0 0.5 LITERS	NA	NA	11/12/2007 10:09 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK__) A07-C857 A7B1775603	Method Blank(VBLK__) A07-C812 A7B1775803	Method Blank(VBLK__) A07-C932 A7B1790103	Method Blank(VBLK__) A07-C859 A7B1797403	Method Blank(VBLK__) A07-C618 A7B1798103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/08/2007 13:07 - - AIR 1.0 1.0 LITERS	11/10/2007 13:54 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D116 A7B1811303	Method Blank(VBLK_) A07-D155 A7B1817503	Method Blank(VBLK_) A07-D034 A7B1829003	Method Blank(VBLK_) A07-D286 A7B1840703	Method Blank(VBLK_) A07-D287 A7B1860103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/13/2007 13:20 - - AIR 1.0 0.5 LITERS	11/14/2007 13:50 - - AIR 1.0 0.5 LITERS	NA	11/16/2007 12:37 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D116 A7B1811303	Method Blank(VBLK_) A07-D155 A7B1817503	Method Blank(VBLK_) A07-D034 A7B1829003	Method Blank(VBLK_) A07-D286 A7B1840703	Method Blank(VBLK_) A07-D287 A7B1860103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/14/2007 23:44 - - AIR 1.0 1.0 LITERS	NA	11/20/2007 11:25 - - AIR 1.0 1.0 LITERS

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **11-14-07** Chain of Custody Number: **370151**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (S. Hunt)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	Flow rate L/MIN	Total minutes
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					
Northeast Anasorb	11-14-07	15:30	X			X							X	X	947	510
Northeast Xad	11-14-07	15:30	X			X							X	X	1071	510
Northwest Anasorb *	11-14-07	15:30	X			X							X	X	1034	510
Northwest Xad *	11-14-07	15:30	X			X							X	X	1169	510
Southeast Anasorb	11-14-07	15:30	X			X							X	X	1007	510
Southeast Xad	11-14-07	15:30	X			X							X	X	1110	510
Southwest Anasorb	11-14-07	15:30	X			X							X	X	789	510
Southwest Xad	11-14-07	15:30	X			X							X	X	1336	510
Dupa Area	11-14-07	15:30	X			X							X	X	1077	510

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

QC Requirements (Specify): *** See comments**

1. Relinquished By: **[Signature]** Date: **11-13-07 15:30** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **[Signature]** Date: **11/15/07** Time: **6:45**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2.0cc

AL-4142 (0907)

Client: **Hayley and Aldrich** Project Manager: **David Demas** Date: **11-13-07** Chain of Custody Number: **370153**

Address: **4903 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
Northeast Anasorb	11-13-07	15:30	X					X							940 1.843 510
Northeast Xad	11-13-07	15:30	X					X							1075 2.010 510
Northwest Anasorb	11-13-07	15:30	Y					X							1076 2.032 510
Northwest Xad	11-13-07	15:30	X					X							1077 2.430 510
Southeast Anasorb*	11-13-07	15:30	X					X							894 1.654 510
Southeast Xad	11-13-07	15:30	X					X							986 1.934 510
Southwest Anasorb	11-13-07	15:30	X					X							773 1.438 510
Southwest Xad	11-13-07	15:30	Y					X							1276 2.609 510
Offsite Location Area	11-13-07	15:30	Y					X							1200 2.353 510

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **Sec Comments**

1. Relinquished By: **AD** Date: **11-13-07** Time: **15:30** Received By: **SC** Date: **11/14/07** Time: **0845**

2. Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Comments: **Large Indicates priority sample w 1-3 T.A.T. All others are normal T.A.T**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2.0.0

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **11-12-07** Chain of Custody Number: **370155**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J. Hunt)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond MGP, Indiana** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt Total Flow Rate Total Minutes		
			Air	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc	Total Flow		Flow Rate	Total Minutes
Northeast Anasorb *	11-12-07	15:30	X										987	1.876	510
Northeast Xad	11-12-07	15:30	X										1046	2.050	510
Northwest Anasorb	11-12-07	15:30	X										1098	1.984	510
Northwest Xad	11-12-07	15:30	X										1117	5.190	510
Southeast Anasorb *	11-12-07	15:30	X										888	1.762	510
Southeast Xad	11-12-07	15:30	X										1012	2.102	510
Southwest Anasorb	11-12-07	15:30	X										716	1.403	510
Southwest Xad	11-12-07	15:30	X										1352	2.650	510
Duplicate Ana Ne.	11-12-07	15:30	X										1071	2.021	510

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months Disposal By _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See comments**

1. Relinquished By: _____ Date: **11-12-07** Time: _____

2. Relinquished By: **D.C.** Date: **11/13/07** Time: **0845**

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **A indicates priority samples w/ 1-3 J.A.F. Contractors hit 9:30 a.m. and wind direction switched after. All others are normal.**

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

TC

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **11-09-07** Chain of Custody Number: **370226**

Address: **4433 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (S. Hunt)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond Former Mop** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flyw Total Mins		
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					
Northeast Anasorb	11-09-07	14:30	X			X								975	1.833	450
Northeast XAD	11-09-07	14:30	X			X								1032	2.023	450
Northwest Anasorb	11-09-07	14:30	X			X								1034	2.027	450
Northwest XAD	11-09-07	14:30	X			X								1280	2.411	450
Southeast Anasorb *	11-09-07	14:30	X			X								673	1.326	450
Southeast XAD	11-09-07	14:30	X			X								1027	2.014	450
Southwest Anasorb	11-09-07	14:30	X			X								796	1.440	450
Southwest XAD	11-09-07	14:30	X			X								1253	2.456	450
Southwest Anasorb Dupe	11-09-07	14:30	X			X								1355	2.057	450

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal: Return To Client GC Requirements (Specify): _____

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments**

1. Relinquished By: **[Signature]** Date: **11-09-07** Time: _____

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **[Signature]** Date: **11-10-07** Time: **08:50**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/ 1-3 T.A.T. All others are normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demms** Chain of Custody Number: **370107**
 Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (S. Hwy T)** Lab Number: **11-08-07**
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Carrier/Waybill Number: **12758-040** Date: **11-08-07** Page: **1** of **21**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Flow Rate			
Northwest Anasorb	11-08-07	15:30	X						X					920	510
Northeast XAD	11-08-07	15:30	X						X					1024	510
Northwest Anasorb	11-08-07	15:30	X						X					987	510
Northwest XAD	11-08-07	15:30	X						X					1134	510
Southeast Anasorb *	11-08-07	15:30	X						X					527	510
Southeast XAD	11-08-07	15:30	X						X					1025	510
Southwest Anasorb	11-08-07	15:30	X						X					796	510
Southwest XAD	11-08-07	15:30	X						X					1374	510
Southeast Anasorb	11-08-07	15:30	X						X					1180	510

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comment.**

1. Relinquished By: **John [Signature]** Date: **11-08-07** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

QC Requirements (Specify): _____

1. Received By: **Bill** Date: **11/9/07** Time: **0845**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/ 3 T.A.S. All others normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Chain of Custody Record

AL-4142 (0907)

Client: Haley and Aldrich Project Manager: David Demas Date: 11-07-07 Chain of Custody Number: 370149
 Address: 4933 S. Hohman Ave Telephone Number (Area Code)/Fax Number: 317-603-4843 (T. Hunt) Lab Number: _____
 City: Hammond State: IN Zip Code: 46323 Site Contact: J. Hunt Lab Contact: _____ Page: 1 of 1

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Containers & Preservatives					Matrix					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow rate Duration m.r.	
			Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Aqueous	Sed	Soil	Urbic's			ICAH'S
Northeast Anisorb	11-07-07	15:30	X								X	X	970	1,901	510
Northeast XAD	11-07-07	15:30	X								X	X	986	1,816	510
Northwest Anisorb	11-07-07	15:30	X								X	X	1073	2,005	510
Northwest XAD	11-07-07	15:30	X								X	X	1103	2,163	510
Southeast Anisorb	11-07-07	15:30	X								X	X	641	1,257	510
Southeast XAD	11-07-07	15:30	X								X	X	997	1,955	510
Southwest Anisorb	11-07-07	15:30	X								X	X	788	1,545	510
Southwest XAD*	11-07-07	15:30	X								X	X	1339	2,626	510
Dupe XAD MSE Pump fully to a11day	11-07-07	15:30	X								X	X	1318	2,584	510

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comments

1. Relinquished By: Ashe Date: 11-07-07 Time: 15:30 1. Received By: CBell Date: 11/8/07 Time: 0845
 2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: Indicates priority sample w/ H2S T.A.T. All others are normal T.A.T.
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy
 2 - 00c



Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Chain of Custody Number: **370110**

Date: **11-06-07** Lab Number: _____ Page: **1** of **1**

Address: **4933 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **(317) 603-4843**

City: **Hammond** State: **IN** Zip Code: **46333** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond Former MOP, Indiana** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: **13758**

Sample I.D. No. and Description <small>Containers for each sample may be combined on one line)</small>	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt, Flow Rate (L/MIN) Total Flow Total Time Total Minutes			
			Air	Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
Ne amu sorb *	11-06-07	15:30	X					X							1,891	480
Ne XAD	11-06-07	15:30	X					X							2000	480
Nw amu sorb	11-06-07	15:30	X					X							2013	480
Nw XAD	11-06-07	15:30	X					X							2,357	480
Se amu sorb	11-06-07	15:30	X					X							1,011	480
Se XAD	11-06-07	15:30	X					X							2,011	480
Sw amu sorb	11-06-07	15:30	X					X							1,519	480
Sw XAD	11-06-07	15:30	X					X							2,719	480
dupe amu sorb se	11-06-07	15:30	X					X							2,683	480

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **See Comments**

1. Relinquished By: **John Hunt** Date: **11-06-07** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

QC Requirements (Specify): _____

1. Received By: **Bar** Date: **11/7/07** Time: **0845**
 2. Received By: **TAL Buffa** Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: ***Indicates priority sample w/1-3 T.A.T. All others are normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

202-00

Chain of Custody Record

TEL-4142 (0907)

Client: **Halley + Aldrich** Project Manager: **David Demas** Date: **11-05-2007** Chain of Custody Number: **370227**

Address: **4433 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: **(S. Hunt)**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: **(S. Hunt)** Page: **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	Duration Min	
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Flow				Flow
Northeast Anasorb	11-05-07	15:00	X			X								X VOC's	894	480
Northeast XAD	11-05-07	15:00	X			X								X PAH's	830	480
Northwest Anasorb *	11-05-07	15:00	X			X								X	999	480
Northwest XAD	11-05-07	15:00	X			X								X	960	480
Southeast Anasorb	11-05-07	15:00	X			X								X	1155	480
Southeast XAD	11-05-07	15:00	X			X								X	886	480
Southwest Anasorb	11-05-07	15:00	X			X								X	965	480
Southwest XAD	11-05-07	15:00	X			X								X	734	480
														X	1310	480

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See Comments**

QC Requirements (Specify):

1. Relinquished By	Date	Time

1. Received By	Date	Time
Andrew Engstrom	11-6-07	0900

2. Relinquished By	Date	Time

2. Received By	Date	Time

3. Relinquished By	Date	Time

Comments: **Indicates priority sample w/1-3 J.A.T. All others are normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

(P)

Chain of Custody Record

AL-4142 (0907)

Client: **Harley + Aldrich** Project Manager: **David Demas** Date: **11-1-07** Chain of Custody Number: **370228**

Address: **4923 S. Hehman Ave** Telephone Number (Area Code)/Fax Number: **(317) 603-4843 (S. Hunt)** Lab Number: _____ Page: **1** of **1**

City: **Hammond** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Former MCP, Indiana** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow Rate (MIN) Totals Minutes		
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Flow Rate (MIN)			TOTAL	
Northeast Anasorb for	11-1-07	15:30	X			X			X					879	1,790	480
Northeast XAD	11-1-07	15:30	X			X			X					858	1,788	480
Northwest Anasorb	11-1-07	15:30	X			X			X					992	1,984	480
Northwest XAD	11-1-07	15:30	X			X			X					972	1,944	480
Southeast Anasorb	11-1-07	15:30	X			X			X					793	1,653	480
Southeast XAD	11-1-07	15:36	X			X			X					749	1,561	480
Southwest Anasorb	11-1-07	15:30	X			X			X					660	1,376	480
Southwest XAD	11-1-07	15:30	X			X			X					1116	2,326	480
Offsite Location (XAD)	11-1-07	15:30	X			X			X					1086	2,263	480

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **QC comments**

1. Relinquished By: *[Signature]* Date: **11-1-07** Time: _____

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Received By: *[Signature]* Date: **11-3-07** Time: **8P:15**

Received By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/ 1-3 T.A.T. All others are normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demms** Date: **11-2-07** Chain of Custody Number: **370108**
 Address: **4933 S. Hohmer Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (S. Hunt)** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**
 Project Name and Location (State): **Hammond Former MGP** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt L/MIN Stoys Total Minutes		
			Aq	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					
Northeast Anasorb	11-2-07	3:00 PM	X			X			X					899	1747	480
Northeast XAD	11-2-07	1:15	X			X			X					0	N/A	N/A. Sample
Northwest Anasorb *	11-2-07	10:30	X			X			X					762	1676	480
Northwest XAD	11-2-07	10:20	X			X			X					1095	2382	480
Southeast Anasorb	11-2-07	10:30	X			X			X					690	1450	480
Southeast XAD	11-2-07	10:20	X			X			X					584	1522	480
Southwest Anasorb	11-2-07	10:20	X			X			X					683	1423	480
Southwest XAD	11-2-07	10:20	X			X			X					1274	2465	480

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **Sec Comments**

1. Relinquished By: **[Signature]** Date: **11-2-07** Time: **10:30**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **[Signature]** Date: **11-3-07** Time: **08:15**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority sample w/1-3 T.A.T. All others are normal T.A.T. NE 440 fell to unrec'd location.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

AL-4142 (0907)

Client: **Haley + Aldrich** Project Manager: **David Demus** Date: **10-31-07** Chain of Custody Number: **370225**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (Josh)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond MGP, INDIANA**

Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one)	Date	Time	Matrix				Containers & Preservatives					Special Instructions/ Conditions of Receipt Flow rate Total Moisture		
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
NE Anasorb 980	10-31-07	16:00	X			X							1,901	510
NE Anasorb 923	10-31-07	16:00	X			X							1,804	510
NW Anasorb 937	10-31-07	16:00	X			X							1,842	495
NW XAD 1308	10-31-07	16:00	X			X							2,642	495
SE Anasorb 539	10-31-07	16:00	X			X							1,057	495
SE XAD 973	10-31-07	16:00	X			X							1,908	495
SW Anasorb 565	10-31-07	16:00	X			X							1,142	510
SW XAD 1065	10-31-07	16:00	X			X							2,151	510
NE XAD (DU) 1178	10-31-07	16:00	X			X							2,310	510

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments.**

1. Relinquished By	Date	Time
<i>[Signature]</i>	10-31-07	
2. Relinquished By	Date	Time
<i>[Signature]</i>	11/16/07	0905
3. Relinquished By	Date	Time

Comments: **Judicates priority sample W 1-3 T.A.T. All others are normal T.A.T.**

Distribution: **WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy**

Chain of Custody Record

AL-4142 (0907)

Client: **Haley + Aldrich** Project Manager: **David Demas** Date: **10-30-07** Chain of Custody Number: **370223**
 Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4893** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **Je Hunt** Lab Contact: _____ Page: **1** of **1**
 Project Name and Location (State): **Hammond MGP, Ind. In.** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flowrate Minutes Total Flow	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
NW Anh	10-30-07	16:00	X					X							1,987 445 987
NW XAD	10-30-07	16:00	X					X							2,600 445 1387
NE Anh	10-30-07	16:00	X					X							1,630 480 787
NE XAD	10-30-07	16:00	X					X							1,776 480 957
SW Anh	10-30-07	16:00	X					X							2,147 445 1477
SW XAD	10-30-07	16:00	X					X							2,657 445 1313
SE Anh	10-30-07	16:00	X					X							1,704 480 818
SE XAD	10-30-07	16:00	X					X							1,829 480 878
DURE XAD	10-30-07	16:00	X					X							1,155 480 554

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **5.00 (Comments)**

1. Relinquished By: **John Holt** Date: **10-30-07** Time: **18:00**
 2. Relinquished By: **[Signature]** Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **[Signature]** Date: **10/30/07** Time: **0915**
 2. Received By: **[Signature]** Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample W #3 T.A.T. All others normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

M

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Chain of Custody Number: **370222**

Address: **4923 S Hohmer Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (on site)** Date: **10-29-07** Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: **J. Hunt**

Project Name and Location (State): **Hammond MGP, Indiana** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow (min)	
			Air	Aqueous	Sed.	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
NE Anasorb 843	10-29-07	15:30	X					X							1,873 450
NE XAD 838	10-29-07	15:30	X					X							1,863 450
NW Anasorb 908	10-29-07	15:30	X					X							2,017 450
NW XAD 1183	10-29-07	15:30	X					X							2,628 450
SE Anasorb 860	10-29-07	15:30	X					X							1,910 450
SE XAD 871	10-29-07	15:30	X					X							1,935 450
SW Anasorb 680	10-29-07	15:30	X					X							1,510 450
SW XAD 1204	10-29-07	15:30	X					X							2,676 450
NE DUPE ANASORB 897	10-29-07	15:30	X					X							2,300 390

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other (See comments)

Sample Disposal: Return To Client GC Requirements (Specify): _____

1. Relinquished By: **J. Hunt** Date: **10-29-07** Time: **15:30** 1. Received By: **J. Hunt** Date: **10/30/07** Time: **0900**

2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/ 1-3 T.A.T. All others normal T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

203.00

TAL-4142 (0907)

Client: **Haley + Aldrich** Project Manager: _____ Date: **10/26/07** Chain of Custody Number: **370220**
 Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **(317) 603-4843** Lab Number: _____ Page: **1** of **2**
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond MGP, Indiana** Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Special Instructions/ Conditions of Receipt How: _____ Time: _____					
			Air	Aqueous	Sed.	Soil	Unpres	H2SO4	HNO3	HCl	NaOH		ZnAc	NaOH			
NE Anasorb X	10/26/07	1:20	X							X					1.824	335	611
NW Anasorb	10/26/07	1:10	X							X					1.930	325	627
NE XAD	10/26/07	1:20	X							X					1.901	335	637
NW XAD	10/26/07	1:10	X							X					2.584	325	840
SE Anasorb	10/26/07	1:57 PM	X							X					1.846	320	591
SW Anasorb	10/26/07	1:05 AM	X							X					1.468	30	330 484
SE XAD	10/26/07	1:15 PM	X							X					1.950	320	624
SW XAD	10/26/07	1:05 PM	X							X					2.579	330	635

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **4-5 see comments**

1. Relinquished By: **J. Hunt** Date: **10/26/07** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **Bell** Date: **10/29/07** Time: **0930**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **A indicates priority sample w 1-3 T.A.T. All others normal T.A.T.**
NE seasons coated in sawdust at 7:45 due to the removal.
204.02

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **D. Demas** Date: **10/25/07** Chain of Custody Number: **370221**

Address: **4923 S. Holman** Telephone Number (Area Code)/Fax Number: **1-317-603-4843** Lab Number: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46032** Site Contact: **J. Hunt** Lab Contact: **J. Hunt**

Project Name and Location (State): **Hammond MGP** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	Flowrate	Time in minutes
			Aqueous	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH					
Northwest Anasorb *	10/25/07	3:30	X			X									X	330852
Northwest XAD	10/25/07	3:30	X			X									X	330875
North east Anasorb	10/25/07	4:00	X			X									X	360633
North east XAD	10/25/07	4:00	X			X									X	360695
Southwest XAD	10/25/07	4:15	X			X									X	375100
NSouthwest Anasorb	10/25/07	4:15	X			X									X	390375
South east XAD	10/25/07	4:30	X			X									X	390764
South east Anasorb	10/25/07	4:30	X			X									X	390784

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By: **J. Hunt** Date: **10-25-07** Time: **4:30** See Comments

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **Bell** Date: **10/29/07** Time: **0930**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority sample w/1-3 T.A.T. All others are normal T.A.T. 204.0°C**

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the sample. PINK - Field Copy



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

RECEIVED

DEC 17 2007

ANALYTICAL REPORT

Job#: A07-D374, A07-D376, A07-D421, A07-D422, A07-D450, A07-D451,
A07-D634, A07-D635, A07-D680, A07-D732, A07-D811

HALEY & ALDRICH
MANCHESTER

Project#: NY3A9043

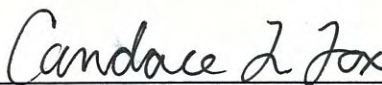
SDG#: D374

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

Bill Haswell
Haley & Aldrich, Inc.
340 Granite Street, 3rd Floor
Manchester, NH 03102

TestAmerica Laboratories Inc.



Candace L. Fox
Project Manager

12/10/2007



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A7D63403	DUPE ANASORB SE	AIR	11/26/2007	15:30	11/27/2007	09:20
A7D42103	DUPE NORTHEAST ANASO	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D81103	DUPE XAD EAST	AIR	11/29/2007	15:30	11/30/2007	08:45
A7D37401	NORTHEAST ANASORB	AIR	11/15/2007	16:00	11/16/2007	08:45
A7D42101	NORTHEAST ANASORB	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D68001	NORTHEAST ANASORB	AIR	11/27/2007	15:30	11/28/2007	08:30
A7D37402	NORTHEAST XAD	AIR	11/15/2007	16:00	11/16/2007	08:45
A7D42102	NORTHEAST XAD	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D68002	NORTHEAST XAD	AIR	11/27/2007	15:30	11/28/2007	08:30
A7D73201	NORTHERN ANASORB	AIR	11/28/2007	15:30	11/29/2007	08:45
A7D73202	NORTHERN XAD	AIR	11/28/2007	15:30	11/29/2007	08:45
A7D42201	NORTHWEST ANASORB	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D45001	NORTHWEST ANASORB	AIR	11/17/2007	10:00	11/19/2007	09:00
A7D42202	NORTHWEST XAD	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D45002	NORTHWEST XAD	AIR	11/17/2007	10:00	11/19/2007	09:00
A7D37403	SE XAD DUPE	AIR	11/15/2007	15:00	11/16/2007	08:45
A7D42203	SOUTHEAST ANASORB	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D63401	SOUTHEAST ANASORB	AIR	11/26/2007	15:30	11/27/2007	09:20
A7D42204	SOUTHEAST XAD	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D63402	SOUTHEAST XAD	AIR	11/26/2007	15:30	11/27/2007	09:20
A7D42205	SOUTHWEST ANASORB	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D42206	SOUTHWEST XAD	AIR	11/16/2007	15:30	11/17/2007	09:00
A7D81101	WEST ANASORB	AIR	11/29/2007	15:30	11/30/2007	08:45
A7D81102	WEST XAD	AIR	11/29/2007	15:30	11/30/2007	08:45

METHODS SUMMARY

Job#: A07-D374, A07-D376, A07-D421, A07-D422, A07-D450, A07-D451,
A07-D634, A07-D635, A07-D680, A07-D732, A07-D811

Project#: NY3A9043
SDG#: D374
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A07-D374, A07-D376, A07-D421, A07-D422, A07-D450, A07-D451,
A07-D634, A07-D635, A07-D680, A07-D732, A07-D811

Project#: NY3A9043
SDG#: D374
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-D374

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D376

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D421

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D422

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D450

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A07-D451

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A07-D634

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D635

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D680

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D732

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-D811

Sample Cooler(s) were received at the following temperature(s); 3.2 °C
All samples were received in good condition.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
NORTHEAST ANASORB	A7D37401	1501	2.00	013
NORTHEAST ANASORB	A7D42101	1501	2.00	013
DUPE NORTHEAST ANASO	A7D42103	1501	2.00	013
NORTHWEST ANASORB	A7D42201	1501	2.00	013
SOUTHEAST ANASORB	A7D42203	1501	2.00	013
SOUTHWEST ANASORB	A7D42205	1501	2.00	013
NORTHWEST ANASORB	A7D45001	1501	2.00	013
SOUTHEAST ANASORB	A7D63401	1501	2.00	013
DUPE ANASORB SE	A7D63403	1501	2.00	013
NORTHEAST ANASORB	A7D68001	1501	2.00	013
NORTHERN ANASORB	A7D73201	1501	2.00	013
WEST ANASORB	A7D81101	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 12/10/2007
Time: 11:19:32

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUPE ANASORB SE A07-D634 11/26/2007	A7D63403	DUPE NORTHEAST ANASO A07-D421 11/16/2007	A7D42103	NORTHEAST ANASORB A07-D374 11/15/2007	A7D37401	NORTHEAST ANASORB A07-D421 11/16/2007	A7D42101
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	6.1	ND	8.0	ND	4.0	ND	4.1
Ethylbenzene	UG/M3	ND	6.1	ND	8.0	ND	4.0	ND	4.1
m/p-Xylenes	UG/M3	ND	6.1	ND	8.0	ND	4.0	ND	4.1
o-Xylene	UG/M3	ND	6.1	ND	8.0	ND	4.0	ND	4.1
Toluene	UG/M3	ND	6.1	ND	8.0	ND	4.0	ND	4.1

Client ID Job No Sample Date	Lab ID	NORTHEAST ANASORB A07-D680 11/27/2007	A7D68001	NORTHERN ANASORB A07-D732 11/28/2007	A7D73201	NORTHWEST ANASORB A07-D422 11/16/2007	A7D42201	NORTHWEST ANASORB A07-D450 11/17/2007	A7D45001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.8	ND	3.7	ND	8.0	ND	9.2
Ethylbenzene	UG/M3	ND	3.8	ND	3.7	ND	8.0	ND	9.2
m/p-Xylenes	UG/M3	ND	3.8	ND	3.7	ND	8.0	ND	9.2
o-Xylene	UG/M3	ND	3.8	ND	3.7	ND	8.0	ND	9.2
Toluene	UG/M3	ND	3.8	ND	3.7	ND	8.0	ND	9.2

Client ID Job No Sample Date	Lab ID	SOUTHEAST ANASORB A07-D422 11/16/2007	A7D42203	SOUTHEAST ANASORB A07-D634 11/26/2007	A7D63401	SOUTHWEST ANASORB A07-D422 11/16/2007	A7D42205	WEST ANASORB A07-D811 11/29/2007	A7D81101
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	8.0	ND	5.0	ND	8.0	ND	4.5
Ethylbenzene	UG/M3	ND	8.0	ND	5.0	ND	8.0	ND	4.5
m/p-Xylenes	UG/M3	ND	8.0	ND	5.0	ND	8.0	ND	4.5
o-Xylene	UG/M3	ND	8.0	ND	5.0	ND	8.0	ND	4.5
Toluene	UG/M3	ND	8.0	ND	5.0	ND	8.0	ND	4.5

Date: 12/10/2007
Time: 11:19:32

Rept: AN0326

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID	Lab ID	DUPE XAD EAST	NORTHEAST XAD	NORTHEAST XAD	NORTHEAST XAD	NORTHEAST XAD	NORTHEAST XAD	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Job No	Sample Date	A07-9811	A07-D374	A7D37402	A07-D421	A7D42102	A07-D680	A7D68002	11/29/2007	11/15/2007	11/16/2007	11/27/2007	11/15/2007	11/16/2007	11/27/2007
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Acenaphthylene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Benzo(a)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Benzo(a)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Benzo(b)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Benzo(ghi)perylene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Benzo(k)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Chrysene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Dibenzo(a,h)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Fluorene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Naphthalene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Phenanthrene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9
Pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.6	ND	4.9

Client ID	Lab ID	NORTHERN XAD	NORTHWEST XAD	NORTHWEST XAD	NORTHWEST XAD	SE XAD DUPE	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Job No	Sample Date	A07-D732	A07-D422	A7D42202	A07-D450	A07-D374	A7D73202	11/28/2007	11/16/2007	A7D45002	11/17/2007	11/15/2007	A7D37403	11/15/2007
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Acenaphthylene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Anthracene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Benzo(a)anthracene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Benzo(a)pyrene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Benzo(b)fluoranthene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Benzo(ghi)perylene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Benzo(k)fluoranthene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Chrysene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Dibenzo(a,h)anthracene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Fluoranthene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Fluorene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Naphthalene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Phenanthrene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9
Pyrene	UG/M3	ND	3.7	ND	5.0	ND	3.7	5.0	ND	9.9	ND	9.9	ND	8.9

Date: 12/10/2007
Time: 11:19:32

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Rept: AN0526

Client ID Job No Sample Date	Lab ID	SOUTHEAST XAD A07-D422 11/16/2007	A7D42204	SOUTHEAST XAD A07-D634 11/26/2007	A7D63402	SOUTHWEST XAD A07-D422 11/16/2007	A7D42206	WEST XAD A07-D811 11/29/2007	A7D81102
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Acenaphthylene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Anthracene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Benzo(a)anthracene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Benzo(a)pyrene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Chrysene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Fluoranthene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Fluorene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Naphthalene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Phenanthrene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3
Pyrene	UG/M3	ND	5.0	ND	3.4	ND	5.0	ND	3.3

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Chronology and QC Summary Package

Date: 12/10/2007
Time: 11:19:48

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A07-D421 A7B1850503		Method Blank(VBLK_) A07-D680 A7B1892303		Method Blank(VBLK_) A07-D811 A7B1919503	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.0	ND	4.0
Ethylbenzene		ND	4.0	ND	4.0	ND	4.0
m/p-Xylenes		ND	4.0	ND	4.0	ND	4.0
o-Xylene		ND	4.0	ND	4.0	ND	4.0
Toluene		ND	4.0	ND	4.0	ND	4.0

Date: 12/10/2007
Time: 11:19:48

Rept: AN0326

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID	Lab ID	Method Blank(VBLK_)	Method Blank(VBLK_)	Method Blank(VBLK_)	Method Blank(VBLK_)	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Job No		A07-0450	A07-D732	A7B1900703	A07-D811	A7B1919903					
Sample Date		A7B1860103									
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	
Acenaphthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Chrysene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Fluorene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Naphthalene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Phenanthrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	
Pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0	NA	

Date: 12/10/2007
Time: 11:19:48

Rept: AN0326

Misource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-D374 A7B1850501		Matrix Spike Blank A07-D680 A7B1892301		Matrix Spike Blank A07-D811 A7B1919501		Matrix Spike Blk Dup A07-D374 A7B1850502	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		17	4.0	16	4.0	16	4.0	16	4.0
Ethylbenzene		20	4.0	19	4.0	19	4.0	19	4.0
m/p-Xylenes		39	4.0	39	4.0	38	4.0	37	4.0
o-Xylene		19	4.0	19	4.0	19	4.0	18	4.0
Toluene		19	4.0	19	4.0	19	4.0	18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-D680 A7B1892302		Matrix Spike Blk Dup A07-D732 A7B1919502		Matrix Spike Blk Dup A07-D732 A7B1919502		Matrix Spike Blk Dup A07-D732 A7B1919502	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		18	4.0	16	4.0	NA	4.0	NA	
Ethylbenzene		20	4.0	19	4.0	NA	4.0	NA	
m/p-Xylenes		41	4.0	38	4.0	NA	4.0	NA	
o-Xylene		20	4.0	19	4.0	NA	4.0	NA	
Toluene		20	4.0	19	4.0	NA	4.0	NA	

Date: 12/10/2007
Time: 11:19:48

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-D421	Matrix Spike Blank A07-D732	Matrix Spike Blank A7B1900701	Matrix Spike Blank A07-D811	Matrix Spike Blank A7B1919901	Matrix Spike Blk Dup A07-D574	A7B1860102	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	
Acenaphthene	UG/M3	9.4	5.0	9.5	5.0	9.7	5.0	8.8	5.0
Acenaphthylene	UG/M3	9.5	5.0	9.6	5.0	9.7	5.0	8.8	5.0
Anthracene	UG/M3	9.7	5.0	9.6	5.0	9.5	5.0	9.2	5.0
Benzo(a)anthracene	UG/M3	9.3	5.0	8.9	5.0	8.9	5.0	8.8	5.0
Benzo(a)pyrene	UG/M3	8.9	5.0	8.7	5.0	8.7	5.0	8.4	5.0
Benzo(b)fluoranthene	UG/M3	8.9	5.0	8.7	5.0	8.7	5.0	8.3	5.0
Benzo(ghi)perylene	UG/M3	8.7	5.0	8.6	5.0	8.6	5.0	8.2	5.0
Benzo(k)fluoranthene	UG/M3	8.9	5.0	8.6	5.0	8.6	5.0	8.2	5.0
Chrysene	UG/M3	9.3	5.0	8.9	5.0	8.9	5.0	8.8	5.0
Dibenzo(a,h)anthracene	UG/M3	8.9	5.0	8.2	5.0	8.6	5.0	8.3	5.0
Fluoranthene	UG/M3	9.6	5.0	9.2	5.0	9.2	5.0	9.1	5.0
Fluorene	UG/M3	9.7	5.0	9.7	5.0	9.7	5.0	9.0	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.8	5.0	8.5	5.0	8.6	5.0	8.2	5.0
Naphthalene	UG/M3	9.1	5.0	9.4	5.0	9.6	5.0	8.0	5.0
Phenanthrene	UG/M3	9.7	5.0	9.5	5.0	9.5	5.0	9.2	5.0
Pyrene	UG/M3	9.7	5.0	9.3	5.0	9.3	5.0	9.1	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-D680	Matrix Spike Blk Dup A7B1900702	Matrix Spike Blk Dup A07-D811	Matrix Spike Blk Dup A7B1919902	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	9.6	5.0	9.8	5.0	NA	5.0	NA	5.0	NA	5.0
Acenaphthylene	UG/M3	9.6	5.0	9.9	5.0	NA	5.0	NA	5.0	NA	5.0
Anthracene	UG/M3	9.5	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)anthracene	UG/M3	8.7	5.0	8.8	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)pyrene	UG/M3	8.4	5.0	8.7	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(b)fluoranthene	UG/M3	8.4	5.0	8.7	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(ghi)perylene	UG/M3	8.4	5.0	8.6	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(k)fluoranthene	UG/M3	8.3	5.0	8.5	5.0	NA	5.0	NA	5.0	NA	5.0
Chrysene	UG/M3	8.6	5.0	8.8	5.0	NA	5.0	NA	5.0	NA	5.0
Dibenzo(a,h)anthracene	UG/M3	8.2	5.0	8.5	5.0	NA	5.0	NA	5.0	NA	5.0
Fluoranthene	UG/M3	9.0	5.0	9.3	5.0	NA	5.0	NA	5.0	NA	5.0
Fluorene	UG/M3	9.7	5.0	9.9	5.0	NA	5.0	NA	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.3	5.0	8.6	5.0	NA	5.0	NA	5.0	NA	5.0
Naphthalene	UG/M3	9.4	5.0	9.4	5.0	NA	5.0	NA	5.0	NA	5.0
Phenanthrene	UG/M3	9.5	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0
Pyrene	UG/M3	9.1	5.0	9.4	5.0	NA	5.0	NA	5.0	NA	5.0

SDG: D374
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1850503 A7B1850501 A7B1850502

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS										
Benzene	UG/M3	17.0	16.3	20.0	20.0	85	82	84	30.0	61-131
Toluene	UG/M3	19.1	18.3	20.0	20.0	96	92	94	30.0	64-137
Ethylbenzene	UG/M3	19.6	18.8	20.0	20.0	98	94	96	30.0	66-147
m/p-Xylenes	UG/M3	39.1	37.4	40.0	40.0	98	94	96	30.0	65-141
o-Xylene	UG/M3	19.2	18.4	20.0	20.0	96	92	94	30.0	64-139

SD6: D374
 Client Sample ID: Method Blank(VBLK___) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1860103 A7B1860101 A7B1860102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.88	8.28	10.0	10.0	89	83	86	7	30.0	49-141
Benzo(a)anthracene	UG/M3	9.32	8.79	10.0	10.0	93	88	91	6	30.0	59-136
Anthracene	UG/M3	9.58	9.24	10.0	10.0	97	92	95	5	30.0	60-134
Acenaphthene	UG/M3	9.45	8.75	10.0	10.0	94	88	91	6	30.0	63-134
Naphthalene	UG/M3	9.13	8.02	10.0	10.0	91	80	86	13	30.0	63-134
Chrysene	UG/M3	9.34	8.80	10.0	10.0	93	88	91	6	30.0	59-137
Benzo(a)pyrene	UG/M3	8.94	8.39	10.0	10.0	89	84	87	6	30.0	58-140
Pyrene	UG/M3	9.66	9.12	10.0	10.0	97	91	94	6	30.0	64-133
Acenaphthylene	UG/M3	9.48	8.78	10.0	10.0	95	88	92	8	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	8.79	8.18	10.0	10.0	88	82	85	7	30.0	47-140
Benzo(b)fluoranthene	UG/M3	8.93	8.34	10.0	10.0	89	83	86	7	30.0	60-138
Benzo(k)fluoranthene	UG/M3	8.86	8.20	10.0	10.0	89	82	86	8	30.0	45-137
Phenanthrene	UG/M3	9.70	9.15	10.0	10.0	97	92	95	5	30.0	63-133
Fluorene	UG/M3	9.68	9.02	10.0	10.0	97	90	94	7	30.0	64-134
Fluoranthene	UG/M3	9.59	9.07	10.0	10.0	96	91	94	5	30.0	63-132
Benzo(ghi)perylene	UG/M3	8.67	8.21	10.0	10.0	87	82	85	6	30.0	59-139

SDG: D374
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1892303 A7B1892301 A7B1892302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.5	17.9	20.0	20.0	83	90	30.0	61-131
Toluene	UG/M3	18.7	19.9	20.0	20.0	94	100	30.0	64-137
Ethylbenzene	UG/M3	19.4	20.5	20.0	20.0	97	103	30.0	66-147
m/p-Xylenes	UG/M3	38.6	40.8	40.0	40.0	97	102	30.0	65-141
o-Xylene	UG/M3	18.9	20.0	20.0	20.0	95	100	30.0	64-139

SD6: D374
 Client Sample ID: Method Blank(VBLK_...) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1900703 A7B1900701 A7B1900702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.23	8.16	10.0	10.0	82	82	82	0	30.0	49-141
Benzo(a)anthracene	UG/M3	8.94	8.66	10.0	10.0	89	87	88	2	30.0	59-136
Anthracene	UG/M3	9.57	9.52	10.0	10.0	96	95	96	1	30.0	60-134
Acenaphthene	UG/M3	9.53	9.62	10.0	10.0	95	96	96	1	30.0	63-134
Naphthalene	UG/M3	9.36	9.43	10.0	10.0	94	94	94	0	30.0	63-134
Chrysene	UG/M3	8.86	8.63	10.0	10.0	89	86	88	3	30.0	59-137
Benzo(a)pyrene	UG/M3	8.66	8.45	10.0	10.0	87	84	86	4	30.0	58-140
Pyrene	UG/M3	9.27	9.13	10.0	10.0	93	91	92	2	30.0	64-133
Acenaphthylene	UG/M3	9.58	9.65	10.0	10.0	96	96	96	0	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	8.52	8.34	10.0	10.0	85	83	84	2	30.0	47-140
Benzo(b)fluoranthene	UG/M3	8.67	8.40	10.0	10.0	87	84	86	4	30.0	60-138
Benzo(k)fluoranthene	UG/M3	8.57	8.29	10.0	10.0	86	83	85	4	30.0	45-137
Phenanthrene	UG/M3	9.54	9.51	10.0	10.0	95	95	95	0	30.0	63-133
Fluorene	UG/M3	9.72	9.72	10.0	10.0	97	97	97	0	30.0	64-134
Fluoranthene	UG/M3	9.25	9.04	10.0	10.0	92	90	91	2	30.0	63-132
Benzo(ghi)perylene	UG/M3	8.59	8.36	10.0	10.0	86	84	85	2	30.0	59-139

SDG: D374
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1919503 A7B1919501 A7B1919502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	16.5	16.5	20.0	20.0	83	83	83	0	30.0	61-131
Toluene	UG/M3	18.6	18.8	20.0	20.0	93	94	94	1	30.0	64-137
Ethylbenzene	UG/M3	19.1	19.2	20.0	20.0	96	96	96	0	30.0	66-147
m/p-Xylenes	UG/M3	38.1	38.4	40.0	40.0	95	96	96	1	30.0	65-141
o-Xylene	UG/M3	18.8	18.9	20.0	20.0	94	95	95	1	30.0	64-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SD6: D374

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1919903 A7B1919901 A7B1919902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.59	8.53	10.0	10.0	86	85	86	1	30.0	49-141
Benzo(a)anthracene	UG/M3	8.91	8.83	10.0	10.0	89	88	89	1	30.0	59-136
Anthracene	UG/M3	9.54	9.73	10.0	10.0	95	97	96	2	30.0	60-134
Acenaphthene	UG/M3	9.73	9.85	10.0	10.0	97	98	98	1	30.0	63-134
Naphthalene	UG/M3	9.61	9.40	10.0	10.0	96	94	95	2	30.0	63-134
Chrysene	UG/M3	8.87	8.82	10.0	10.0	89	88	89	1	30.0	59-137
Benzo(a)pyrene	UG/M3	8.74	8.66	10.0	10.0	87	87	87	0	30.0	58-140
Pyrene	UG/M3	9.32	9.35	10.0	10.0	93	94	94	1	30.0	64-133
Acenaphthylene	UG/M3	9.73	9.88	10.0	10.0	97	99	98	2	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	8.62	8.59	10.0	10.0	86	86	86	0	30.0	47-140
Benzo(b)fluoranthene	UG/M3	8.70	8.66	10.0	10.0	87	87	87	0	30.0	60-138
Benzo(k)fluoranthene	UG/M3	8.57	8.51	10.0	10.0	86	85	86	1	30.0	45-137
Phenanthrene	UG/M3	9.52	9.69	10.0	10.0	95	97	96	2	30.0	63-133
Fluorene	UG/M3	9.72	9.92	10.0	10.0	97	99	98	2	30.0	64-134
Fluoranthene	UG/M3	9.24	9.28	10.0	10.0	92	93	93	1	30.0	63-132
Benzo(ghi)perylene	UG/M3	8.62	8.60	10.0	10.0	86	86	86	0	30.0	59-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	DUPE ANASORB SE A07-D634 A7D63403	DUPE NORTHEAST ANASO A07-D421 A7D42103	DUPE XAD EAST A07-D811 A7D81103	NORTHEAST ANASORB A07-D374 A7D37401	NORTHEAST ANASORB A07-D421 A7D42101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/26/2007 15:30 11/27/2007 09:20 11/28/2007 11:36 - YES AIR 2.0 0.656 LITERS	11/16/2007 15:30 11/17/2007 09:00 11/19/2007 13:46 - YES AIR 2.0 0.502 LITERS	NA	11/15/2007 16:00 11/16/2007 08:45 11/19/2007 12:47 - YES AIR 2.0 1.002 LITERS	11/16/2007 15:30 11/17/2007 09:00 11/19/2007 13:26 - YES AIR 2.0 0.966 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	DUPE ANASORB SE A07-D634 A7D63403	DUPE NORTHEAST ANASO A07-D421 A7D42103	DUPE XAD EAST A07-D811 A7D81103	NORTHEAST ANASORB A07-D374 A7D37401	NORTHEAST ANASORB A07-D421 A7D42101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	11/29/2007 15:30 11/30/2007 08:45 11/30/2007 17:32 - YES AIR 1.0 1.09 LITERS	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHEAST ANASORB A07-D680 A7D68001	NORTHEAST XAD A07-D374 A7D37402	NORTHEAST XAD A07-D421 A7D42102	NORTHEAST XAD A07-D680 A7D68002	NORTHERN ANASORB A07-D732 A7D73201
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/27/2007 15:30 11/28/2007 08:30 11/28/2007 13:10 - YES AIR 2.0 1.037 LITERS	NA	NA	NA	11/28/2007 15:30 11/29/2007 08:45 12/03/2007 12:04 - YES AIR 2.0 1.089 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHEAST ANASORB A07-D680 A7D68001	NORTHEAST XAD A07-D374 A7D37402	NORTHEAST XAD A07-D421 A7D42102	NORTHEAST XAD A07-D680 A7D68002	NORTHERN ANASORB A07-D732 A7D73201
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/15/2007 16:00 11/16/2007 08:45 11/20/2007 14:19 - YES AIR 1.0 1.083 LITERS	11/16/2007 15:30 11/17/2007 09:00 11/21/2007 07:31 - YES AIR 1.0 1.724 LITERS	11/27/2007 15:30 11/28/2007 08:30 11/29/2007 14:32 - YES AIR 1.0 1.025 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTHERN XAD A07-D732 A7D73202	NORTHWEST ANASORB A07-D422 A7D42201	NORTHWEST ANASORB A07-D450 A7D45001	NORTHWEST XAD A07-D422 A7D42202	NORTHWEST XAD A07-D450 A7D45002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/16/2007 15:30 11/17/2007 09:00 11/19/2007 15:53 - YES AIR 2.0 0.5 LITERS	11/17/2007 10:00 11/19/2007 09:00 11/19/2007 14:15 - YES AIR 2.0 0.434 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTHERN XAD A07-D732 A7D73202	NORTHWEST ANASORB A07-D422 A7D42201	NORTHWEST ANASORB A07-D450 A7D45001	NORTHWEST XAD A07-D422 A7D42202	NORTHWEST XAD A07-D450 A7D45002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/28/2007 15:30 11/29/2007 08:45 11/29/2007 15:41 - YES AIR 1.0 1.353 LITERS	NA	NA	11/16/2007 15:30 11/17/2007 09:00 11/21/2007 12:09 - YES AIR 1.0 1.0 LITERS	11/17/2007 10:00 11/19/2007 09:00 11/21/2007 08:41 - YES AIR 1.0 0.505 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SE XAD DUPE A07-D374 A7D37403	SOUTHEAST ANASORB A07-D422 A7D42203	SOUTHEAST ANASORB A07-D634 A7D63401	SOUTHEAST XAD A07-D422 A7D42204	SOUTHEAST XAD A07-D634 A7D63402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/16/2007 15:30 11/17/2007 09:00 11/19/2007 16:03 - YES AIR 2.0 0.5 LITERS	11/26/2007 15:30 11/27/2007 09:20 11/28/2007 11:17 - YES AIR 2.0 0.797 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SE XAD DUPE A07-D374 A7D37403	SOUTHEAST ANASORB A07-D422 A7D42203	SOUTHEAST ANASORB A07-D634 A7D63401	SOUTHEAST XAD A07-D422 A7D42204	SOUTHEAST XAD A07-D634 A7D63402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/15/2007 15:00 11/16/2007 08:45 11/20/2007 15:29 - YES AIR 1.0 0.562 LITERS	NA	NA	11/16/2007 15:30 11/17/2007 09:00 11/21/2007 12:44 - YES AIR 1.0 1.0 LITERS	11/26/2007 15:30 11/27/2007 09:20 11/29/2007 13:22 - YES AIR 1.0 1.476 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTHWEST ANASORB A07-D422 A7D42205	SOUTHWEST XAD A07-D422 A7D42206	WEST ANASORB A07-D811 A7D81101	WEST XAD A07-D811 A7D81102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/16/2007 15:30 11/17/2007 09:00 11/19/2007 16:13 - YES AIR 2.0 0.5 LITERS	NA	11/29/2007 15:30 11/30/2007 08:45 12/03/2007 12:24 - YES AIR 2.0 0.881 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTHWEST ANASORB A07-D422 A7D42205	SOUTHWEST XAD A07-D422 A7D42206	WEST ANASORB A07-D811 A7D81101	WEST XAD A07-D811 A7D81102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/16/2007 15:30 11/17/2007 09:00 11/21/2007 13:19 - YES AIR 1.0 1.0 LITERS	NA	11/29/2007 15:30 11/30/2007 08:45 11/30/2007 16:23 - YES AIR 1.0 1.516 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D374 A7B1850501	Matrix Spike Blank A07-D421 A7B1860101	Matrix Spike Blank A07-D680 A7B1892301	Matrix Spike Blank A07-D732 A7B1900701	Matrix Spike Blank A07-D811 A7B1919501
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/19/2007 12:28 - - AIR 1.0 0.5 LITERS	NA	11/28/2007 10:57 - - AIR 1.0 0.5 LITERS	NA	12/05/2007 11:45 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D374 A7B1850501	Matrix Spike Blank A07-D421 A7B1860101	Matrix Spike Blank A07-D680 A7B1892301	Matrix Spike Blank A07-D732 A7B1900701	Matrix Spike Blank A07-D811 A7B1919501
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/20/2007 12:00 - - AIR 1.0 1.0 LITERS	NA	11/29/2007 12:13 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D811 A7B1919901	Matrix Spike Blk Dup A07-D374 A7B1850502	Matrix Spike Blk Dup A07-D374 A7B1860102	Matrix Spike Blk Dup A07-D680 A7B1892302	Matrix Spike Blk Dup A07-D680 A7B1900702
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/19/2007 12:38 - AIR 1.0 0.5 LITERS	NA	11/28/2007 11:07 - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D811 A7B1919901	Matrix Spike Blk Dup A07-D374 A7B1850502	Matrix Spike Blk Dup A07-D374 A7B1860102	Matrix Spike Blk Dup A07-D680 A7B1892302	Matrix Spike Blk Dup A07-D680 A7B1900702
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/30/2007 15:13 - AIR 1.0 LITERS	NA	11/20/2007 12:34 - AIR 1.0 LITERS	NA	11/29/2007 12:47 - AIR 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-D732 A7B1919502	Matrix Spike Blk Dup A07-D811 A7B1919902
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/03/2007 11:54 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-D732 A7B1919502	Matrix Spike Blk Dup A07-D811 A7B1919902
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/30/2007 15:48 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D421 A7B1850503	Method Blank(VBLK_) A07-D450 A7B1860103	Method Blank(VBLK_) A07-D680 A7B1892303	Method Blank(VBLK_) A07-D732 A7B1900703	Method Blank(VBLK_) A07-D811 A7B1919503
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/19/2007 12:18 - - AIR 1.0 0.5 LITERS	NA	11/28/2007 10:48 - - AIR 1.0 0.5 LITERS	NA	12/03/2007 11:35 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D421 A7B1850503	Method Blank(VBLK_) A07-D450 A7B1860103	Method Blank(VBLK_) A07-D680 A7B1892303	Method Blank(VBLK_) A07-D732 A7B1900703	Method Blank(VBLK_) A07-D811 A7B1919503
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/20/2007 11:25 - - AIR 1.0 1.0 LITERS	NA	11/29/2007 11:38 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D811 A7B1919903			
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/30/2007 14:39 - - AIR 1.0 1.0 LITERS			

AL-4142 (0907)

Client: **Holley and Aldrich** Project Manager: **David Dennis** Date: **11-15-07** Chain of Custody Number: **369966**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4543 (S. Hunt)** Lab Number: **1011**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: **J. Hunt**

Project Name and Location (State): **Hammond Former Mol** Carins/Vendor Number: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Total ppm
			1	2	3	4	MSD	MS	HS	MS		
Northeast Anasorb *	11-15-07	16:00	X	X	X	X	X	X	X	X	X	1002 1.855 540
Northeast Xad *	11-15-07	16:00	X	X	X	X	X	X	X	X	X	1083 2.005 540
Northwest Anasorb	11-15-07	15:00	X	X	X	X	X	X	X	X	X	911 2.023 480
Northwest Xad	11-15-07	15:00	X	X	X	X	X	X	X	X	X	1004 2.216 480
Southeast Anasorb	11-15-07	15:00	X	X	X	X	X	X	X	X	X	1008 2.101 480
Southeast Xad	11-15-07	15:00	X	X	X	X	X	X	X	X	X	1167 2.420 480
Southwest Anasorb	11-15-07	15:00	X	X	X	X	X	X	X	X	X	795 1.572 480
Southwest Xad	11-15-07	15:00	X	X	X	X	X	X	X	X	X	1314 2.747 480
SO XAD DUPE	11-15-07	15:00	X	X	X	X	X	X	X	X	X	562 1.171 480
NE Anasorb DUPE	11-15-07	16:00	X	X	X	X	X	X	X	X	X	1331 2.465 540

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Dispose By Lab Archive For _____ Months longer than 1 month

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **SEC requirements**

1. Relinquished By: **[Signature]** Date: **11-15-07/16:00** Time: **11/16/05 0845**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/ 1-3 T.A.T. Hold other samples 2.0c**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

(F)

Client: Hailey + Aldrich Project Manager: David Demas Date: 11-16-07 Chain of Custody Number: 369965

Address: 4923 S. Hohman Ave Telephone Number (Area Code)/Fax Number: 317-603-4843 Lab Number: _____ Page: _____ of _____

City: Hammond State: IN Zip Code: 46323 Site Contact: J. Hunt Lab Contact: _____

Project Name and Location (State): Hammond Former Mop Carrier/Waybill Number: _____

Company/Address/County No.: 12756-040

Sample I.D. No. and Description <small>Containers for each sample may be combined on one line</small>	Date	Time	Matrix				Containers & Preservatives				Special Instructions/ Conditions of Receipt Flow rate
			soil	sludge	water	air	GC/MS	GC	HOM	HOM	
Northeast Anisorb *	11-16-07	15:30	X				X	X	X	X	480
Northeast Xad *	11-16-07	15:30	X				X	X	X	X	480
Northwest Anisorb	11-16-07	15:30	X				X	X	X	X	480
Northwest Xad	11-16-07	15:30	X				X	X	X	X	480
Southeast Anisorb	11-16-07	15:30	X				X	X	X	X	480
Southeast Xad	11-16-07	15:30	X				X	X	X	X	480
Southwest Anisorb	11-16-07	15:30	X				X	X	X	X	480
Southwest Xad-Sample *	11-16-07	15:30	X				X	X	X	X	480
Southwest Anisorb *	11-16-07	15:30	X				X	X	X	X	480
Southwest Xad	11-16-07	15:30	X				X	X	X	X	480

Sample Disposal: Return To Client Unknown Poison B Skin Irritant Flammable Non-Hazard Hazardous

Disposal By: _____ Months: _____ Archive For: _____ (A fee may be assessed if samples are retained longer than 1 month)

OC Requirements (Specify): GC/MS COMMENTS

1. Requisitioned By: [Signature] Date: 11-16-07 Time: 15:30

2. Requisitioned By: _____ Date: _____ Time: _____

3. Requisitioned By: _____ Date: _____ Time: _____

1. Received By: Well Date: 11/17/07 Time: 0900

2. Received By: SAR COLLARO Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: Indicates priority samples w/1-3 T.A.J. Held other samples 2.0°C

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Slays with the Sample. PINK - Field Copy. SW - Sample sw. rod exploded.... on removal.

Chain of Custody Record

Item # 4923 S. Helmman Ave Project Manager David Demas Date 11-17-07 Chain of Custody Number 369967
 Address Hammond Site 1N 46323 Telephone Number (Area Code)/Fax Number 317-603-4843 (J. Hunt) Lab Number _____ Page 1 of 1
 Project Name and Location (State) Hammond Site Contact J. Hunt Lab Contact _____
 Contract/Purchase Order/Quote No. +3-12758-0410 Carrier/Vehicle Number _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Containers & Preservatives					Matrix	Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Zip Code	MO	HO	CO	RES				
Northeast Anasorb	11-17-07	10:00	4923	IN	46323	X	X	X	X	X	447 1.987 210
Northeast Xad	11-17-07	10:00				X	X	X	X	X	441 2.100 210
Northwest Anasorb *	11-17-07	10:00				X	X	X	X	X	444 2.068 210
Northwest Xad *	11-17-07	10:00				X	X	X	X	X	505 2.403 210
Southeast Anasorb	11-17-07	10:00				X	X	X	X	X	370 1.764 210
Southeast Xad	11-17-07	10:00				X	X	X	X	X	532 2.534 210
Southwest Anasorb	11-17-07	10:00				X	X	X	X	X	37 1.510 210
Southwest Xad	11-17-07	10:00				X	X	X	X	X	547 2.604 210
Southeast Ana Dye	11-17-07	10:00				X	X	X	X	X	364 1.794 210
Northwest Xad dye	11-17-07	10:00				X	X	X	X	X	487 2.321 210

Sample Disposal: Return to Client Deletion By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Sample Requirements (Specify): _____

Relinquished By: [Signature] Date: 11-17-07 Time: 10:00
 Relinquished By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____

Remarks: Indicates priority sample w/ 1-3 T.A.T - hold etc - pulled all pumps carry due to rain
4.00c



Chain of Custody Record

TAL-4142 (09/07)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **11-26-07** Chain of Custody Number: **369963**

Address: **4923 S. Hobman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J. Hunt)** Lab Number: _____ Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond Former Mop** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow Total M.A.	
			Soil	Water	Sludge	Other	Unknown	Unlabeled	Sealed	Other	Other	Other			
Northeast Anasorb	11-26-07	15:30	X												1012 1,985 540
Northeast Xad	11-26-07	15:30	X												1038 1,923 540
Northwest Anasorb	11-26-07	15:30	X												1041 2,021 540
Northwest Xad	11-26-07	15:30	X												1081 2,261 540
Southeast Anasorb *	11-26-07	15:30	X												747 1,476 540
Southeast Xad	11-26-07	15:30	X												1476 2,734 540
Southwest Anasorb	11-26-07	15:30	X												836 1,548 540
Southwest Xad	11-26-07	15:30	X												1473 2,654 540
Dye Ana SE *	11-26-07	15:30	X												696 1,215 540
Dye Xad SE	11-26-07	15:30	X												1064 1,971 540

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Form Around Title Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: *** see comments**

1. Requisitioned By: **[Signature]** Date: **11-26-07** Time: **15:30**
 2. Received By: **W. Bell** Date: **11-27-07** Time: **09:20**
 3. Requisitioned By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples - w/ 3 T.A.T. All others are normal (17660)**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Z-02c

R

Chain of Custody Record

TAL-4142 (0607)

Client: **Haley and Aldrich Ave** Project Manager: **David Demos** Date: **11-27-07** Chain of Custody Number: **369962**

Address: **4423 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **312-603-4843 (J. Hunt)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Upland Remediation** Carrier/Manifest Number: _____

Contract Number/Order/Quote No.: **1075-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Matrix	Supers	N2O2	HCN	HOCl	ZnAc				
Northeast Anasorb *	11-27-07	15:30	X	X	X	X	X	X	X	1037	1,921	540
Northeast Xad *	11-27-07	15:30	X	X	X	X	X	X	X	1025	1,899	540
Northwest Anasorb	11-27-07	15:30	X	X	X	X	X	X	X	1080	2,000	540
Northwest Xad	11-27-07	15:30	X	X	X	X	X	X	X	1237	2,290	540
South east Anasorb	11-27-07	15:30	X	X	X	X	X	X	X	782	1,355	540
South east Xad	11-27-07	15:30	X	X	X	X	X	X	X	1495	2,768	540
Southwest Anasorb	11-27-07	15:30	X	X	X	X	X	X	X	972	1,424	540
Southwest Xad	11-27-07	15:30	X	X	X	X	X	X	X	1460	2,704	540
Northwest Dupe Anasorb	11-27-07	15:30	X	X	X	X	X	X	X	678	1,255	540
Southeast Dupe Xad	11-27-07	15:30	X	X	X	X	X	X	X	1014	1,988	540

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For _____ Months
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See comments**

1. Retinquished By: **[Signature]** Date: **11-27-07** Time: **15:30** Received By: **[Signature]** Date: **11/28/07** Time: **0830**

2. Retinquished By: _____ Date: _____ Time: _____

3. Retinquished By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w/1-3 T.A.T. All others are normal I.A.T**

DISTRIBUTION: WHITE - Returned to Client with Report; QUARRY - Stays with the Sample; PINK - Field Copy **D.O.C**

Client: **Haley and Aldrich** Def: **11-28-07** Chain of Custody Number: **369955**
 Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (JITHV)** Page: **1** of **1**
 City: **Hammond** State: **IN** Zip Code: **46323** Project Manager: **David Demas** Lab Contact: **J. HUNT**

Project Name and Location (State): **Hammond UPLAND Remediation, IN**
 Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt Flow Rate (L/MIN)	
			Soils	Sludges	Water	GC	GC	GC	GC	GC		
Northern Anasorb *	11-28-07	15:30	X			X						1089 2.616 540
Northern Xad	11-28-07	15:30	X			X						1553 2.506 540
Eastern Anasorb	11-28-07	15:30	X			X						1634 1.915 540
Eastern Xad	11-28-07	15:30	X			X						993 1.820 540
Southern Anasorb	11-28-07	15:30	X			X						736 1.363 540
Southern Xad	11-28-07	15:30	X			X						1178 2.182 540
Western Anasorb	11-28-07	15:30	X			X						973 1.728 540
Western Xad	11-28-07	15:30	X			X						1354 2.508 540
East Xad Dupe	11-28-07	15:30	X			X						997 1.847 540
South Anasorb Dpe	11-28-07	15:30	X			X						619 1.201 540

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposed By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Form Required Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: *
 1. Relinquished By: **[Signature]** Date: **11-28-07 15:30** Time: **15:30**
 2. Acquired By: **[Signature]** Date: **11-29-07 08:45** Time: **08:45**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: *** Indicates priority sample w/ 1-3 T.A.S. 1660 OTHERS.**

DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Stays with the Sample. PINK - Field Copy

AL-9142 (9/07)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **11-29-07** Chain of Custody Number: **370156**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J. Hunt)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Soil	Water	Sludge	Other	Unknown	Unlabeled	MSD	MSA	MSB	MSD			MSA
North Anasorb	11-29-07	15:30	X												Flow Tanks
North Xad	11-29-07	15:30	X												1078 1A9b 540
South Anasorb	11-29-07	15:30	X												1961 2570 540
South Xad	11-29-07	15:30	X												1126 2085 540
East Anasorb	11-29-07	15:30	X												1601 1855 540
East Xad	11-29-07	15:30	X												1613 1876 540
West Anasorb *	11-29-07	15:30	X												1083 2006 540
West Xad *	11-29-07	15:30	X												881 1637 540
Dupe Ana South	11-29-07	15:30	X												1916 2807 540
Dupe Xad East *	11-29-07	15:30	X												564 1045 540
															1090 2018 540

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return to Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **SEE COMMENTS**

1. Relinquished By: _____ Date: **11-29-07** Time: **15:30**
 2. Received By: _____ Date: **11/30/07** Time: **0845**

3. Relinquished By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicate priority sample w/ 1-3 T.A.T. Hold other samples.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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DEC 31 2007

HALEY & ALDRICH
MANCHESTER

ANALYTICAL REPORT

Job#: A07-D867, A07-D902, A07-D904, A07-D989, A07-E160, A07-E210,
A07-E211, A07-E234, A07-E273, A07-E390, A07-E594, A07-E616,
A07-E696, A07-E783, A07-E829

Project#: NY3A9043

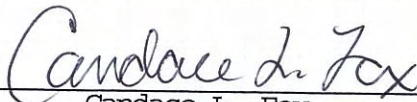
SDG#: D867

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

Bill Haswell
Haley & Aldrich, Inc.
340 Granite Street, 3rd Floor
Manchester, NH 03102

TestAmerica Laboratories Inc.



Candace L. Fox
Project Manager

12/28/2007



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A7E23403	DUP ANASORB SOUTH	AIR	12/08/2007	15:30	12/10/2007	09:00
A7E23404	DUP XAD EAST	AIR	12/08/2007	15:30	12/10/2007	09:00
A7E39003	DUPE ANASORB EAST	AIR	12/12/2007		12/13/2007	08:45
A7E61603	DUPE ANASORB SOUTH	AIR	12/17/2007	15:30	12/18/2007	09:40
A7E69603	DUPE ANASORB SOUTH	AIR	12/18/2007	15:30	12/19/2007	09:30
A7E16003	DUPE NORTH ANASORB	AIR	12/06/2007	15:30	12/07/2007	11:45
A7E61604	DUPE XAD EAST	AIR	12/17/2007	15:30	12/18/2007	09:40
A7E69604	DUPE XAD EAST	AIR	12/18/2007	15:30	12/19/2007	09:30
A7E21101	EAST ANASORB	AIR	12/07/2007	15:30	12/08/2007	09:00
A7E61601	EAST ANASORB	AIR	12/17/2007	15:30	12/18/2007	09:40
A7E21102	EAST XAD	AIR	12/07/2007	15:30	12/08/2007	09:00
A7E61602	EAST XAD	AIR	12/17/2007	15:30	12/18/2007	09:40
A7D98903	NORTH ANA DUPE	AIR	12/04/2007	15:30	12/05/2007	13:00
A7E27301	NORTH ANASORB	AIR	12/10/2007	15:30	12/11/2007	09:15
A7E39001	NORTH ANASORB	AIR	12/12/2007		12/13/2007	08:45
A7E69601	NORTH ANASORB	AIR	12/18/2007	15:30	12/19/2007	09:30
A7E82901	NORTH ANASORB	AIR	12/20/2007	15:30	12/21/2007	09:30
A7E16004	NORTH XAD	AIR	12/06/2007	15:30	12/07/2007	11:45
A7E27302	NORTH XAD	AIR	12/10/2007	15:30	12/11/2007	09:15
A7E39002	NORTH XAD	AIR	12/12/2007		12/13/2007	08:45
A7E69602	NORTH XAD	AIR	12/18/2007	15:30	12/19/2007	09:30
A7E82902	NORTH XAD	AIR	12/20/2007	15:30	12/21/2007	09:30
A7D86710	SOUTH ANA DUPE	AIR	11/30/2007	15:30	12/01/2007	09:00
A7D90201	SOUTH ANASORB	AIR	12/01/2007	15:30	12/04/2007	09:00
A7D98901	SOUTH ANASORB	AIR	12/04/2007	15:30	12/05/2007	13:00
A7E16001	SOUTH ANASORB	AIR	12/06/2007	15:30	12/07/2007	11:45
A7E23401	SOUTH ANASORB	AIR	12/08/2007	15:30	12/10/2007	09:00
A7E59401	SOUTH ANASORB	AIR	12/14/2007	15:30	12/15/2007	09:15
A7E78301	SOUTH ANASORB	AIR	12/19/2007	15:30	12/20/2007	09:40
A7D90202	SOUTH XAD	AIR	12/01/2007	15:30	12/04/2007	09:00
A7D98902	SOUTH XAD	AIR	12/04/2007	15:30	12/05/2007	13:00
A7E16002	SOUTH XAD	AIR	12/06/2007	15:30	12/07/2007	11:45
A7E23402	SOUTH XAD	AIR	12/08/2007	15:30	12/10/2007	09:00
A7E59402	SOUTH XAD	AIR	12/14/2007	15:30	12/15/2007	09:15
A7E78302	SOUTH XAD	AIR	12/19/2007	15:30	12/20/2007	09:40
A7D86709	SOUTH XAD DUPE	AIR	11/30/2007	15:30	12/01/2007	09:00
A7D86707	WEST ANASORB	AIR	11/30/2007	15:30	12/01/2007	09:00
A7D90401	WEST ANASORB	AIR	12/03/2007	15:30	12/04/2007	09:00
A7D86708	WEST XAD	AIR	11/30/2007	15:30	12/01/2007	09:00
A7D90402	WEST XAD	AIR	12/03/2007	15:30	12/04/2007	09:00

METHODS SUMMARY

Job#: A07-D867, A07-D902, A07-D904, A07-D989, A07-E160, A07-E210,
A07-E211, A07-E234, A07-E273, A07-E390, A07-E594, A07-E616,
A07-E696, A07-E783, A07-E829

Project#: NY3A9043
SDG#: D867
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL</u>
	<u>METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A07-D867, A07-D902, A07-D904, A07-D989, A07-E160, A07-E210,
A07-E211, A07-E234, A07-E273, A07-E390, A07-E594, A07-E616,
A07-E696, A07-E783, A07-E829

Project#: NY3A9043
SDG#: D867
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A07-D867

Sample Cooler(s) were received at the following temperature(s); 3.4 °C
All samples were received in good condition.

A07-D902

Sample Cooler(s) were received at the following temperature(s); 2@3.4 °C
All samples were received in good condition.

A07-D904

Sample Cooler(s) were received at the following temperature(s); 2@3.4 °C
All samples were received in good condition.

A07-D989

Sample Cooler(s) were received at the following temperature(s); 3.0 °C
All samples were received in good condition.

A07-E160

Sample Cooler(s) were received at the following temperature(s); 2@3.4 °C
DUPE NORTH XAD was marked on the COC as a "run" sample but it was not received.
NORTH XAD was logged in instead.

A07-E210

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E211

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E234

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A07-E273

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E390

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E594

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E616

Sample Cooler(s) were received at the following temperature(s); 2 @ 3.0 °C
All samples were received in good condition.

A07-E696

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E783

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A07-E829

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC Volatile Data

No deviations from protocol were encountered during the analytical procedures.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
WEST ANASORB	A7D86707	1501	2.00	013
SOUTH ANA DUPE	A7D86710	1501	2.00	013
SOUTH ANASORB	A7D90201	1501	2.00	013
WEST ANASORB	A7D90401	1501	2.00	013
SOUTH ANASORB	A7D98901	1501	2.00	013
NORTH ANA DUPE	A7D98903	1501	2.00	013
SOUTH ANASORB	A7E16001	1501	2.00	013
DUPE NORTH ANASORB	A7E16003	1501	2.00	013
EAST ANASORB	A7E21101	1501	2.00	013
SOUTH ANASORB	A7E23401	1501	2.00	013
DUP ANASORB SOUTH	A7E23403	1501	2.00	013
NORTH ANASORB	A7E27301	1501	2.00	013
NORTH ANASORB	A7E39001	1501	2.00	013
DUPE ANASORB EAST	A7E39003	1501	2.00	013
SOUTH ANASORB	A7E59401	1501	2.00	013
EAST ANASORB	A7E61601	1501	2.00	013
DUPE ANASORB SOUTH	A7E61603	1501	2.00	013
NORTH ANASORB	A7E69601	1501	2.00	013
DUPE ANASORB SOUTH	A7E69603	1501	2.00	013
SOUTH ANASORB	A7E78301	1501	2.00	013
NORTH ANASORB	A7E82901	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit.
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Client ID Job No Sample Date	Lab ID	DUP ANASORB SOUTH A07-E234 12/08/2007	A7E23403	DUPE ANASORB EAST A07-E390 12/12/2007	A7E39003	DUPE ANASORB SOUTH A07-E616 12/17/2007	A7E61603	DUPE ANASORB SOUTH A07-E696 12/18/2007	A7E69603
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	6.1	ND	7.1	ND	6.7	ND	7.1
Ethylbenzene	UG/M3	ND	6.1	ND	7.1	ND	6.7	ND	7.1
m/p-Xylenes	UG/M3	ND	6.1	ND	7.1	ND	6.7	ND	7.1
o-Xylene	UG/M3	ND	6.1	ND	7.1	ND	6.7	ND	7.1
Toluene	UG/M3	ND	6.1	ND	7.1	ND	6.7	ND	7.1

Client ID Job No Sample Date	Lab ID	DUPE NORTH ANASORB A07-E160 12/06/2007	A7E16003	EAST ANASORB A07-E211 12/07/2007	A7E21101	EAST ANASORB A07-E616 12/17/2007	A7E61601	NORTH ANA DUPE A07-D989 12/04/2007	A7D98903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	6.7	ND	4.8	ND	4.1	ND	6.8
Ethylbenzene	UG/M3	ND	6.7	ND	4.8	ND	4.1	ND	6.8
m/p-Xylenes	UG/M3	ND	6.7	ND	4.8	ND	4.1	ND	6.8
o-Xylene	UG/M3	ND	6.7	ND	4.8	ND	4.1	ND	6.8
Toluene	UG/M3	ND	6.7	ND	4.8	ND	4.1	ND	6.8

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A07-E273 12/10/2007	A7E27301	NORTH ANASORB A07-E390 12/12/2007	A7E39001	NORTH ANASORB A07-E696 12/18/2007	A7E69601	NORTH ANASORB A07-E829 12/20/2007	A7E82901
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	4.1
Ethylbenzene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	4.1
m/p-Xylenes	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	4.1
o-Xylene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	4.1
Toluene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	4.1

Date: 12/28/2007
Time: 10:09:33

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	SOUTH ANA DUPE A07-D867 11/30/2007	A7D86710	SOUTH ANASORB A07-D902 12/01/2007	A7D90201	SOUTH ANASORB A07-D989 12/04/2007	A7D98901	SOUTH ANASORB A07-E160 12/06/2007	A7E16001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	8.0	ND	3.3	ND	6.2	ND	5.0
Ethylbenzene	UG/M3	ND	8.0	ND	3.3	ND	6.2	ND	5.0
m/p-Xylenes	UG/M3	ND	8.0	ND	3.3	ND	6.2	ND	5.0
o-Xylene	UG/M3	ND	8.0	ND	3.3	ND	6.2	ND	5.0
Toluene	UG/M3	ND	8.0	ND	3.3	ND	6.2	ND	5.0

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A07-E234 12/08/2007	A7E23401	SOUTH ANASORB A07-E594 12/14/2007	A7E59401	SOUTH ANASORB A07-E783 12/19/2007	A7E78301	WEST ANASORB A07-D867 11/30/2007	A7D86707
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.6	ND	3.2	ND	3.4	ND	8.0
Ethylbenzene	UG/M3	ND	3.6	ND	3.2	ND	3.4	ND	8.0
m/p-Xylenes	UG/M3	ND	3.6	ND	3.2	ND	3.4	ND	8.0
o-Xylene	UG/M3	ND	3.6	ND	3.2	ND	3.4	ND	8.0
Toluene	UG/M3	ND	3.6	ND	3.2	ND	3.4	ND	8.0

Client ID Job No Sample Date	Lab ID	WEST ANASORB A07-D904 12/03/2007	A7D90401	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.0	NA		NA		NA	
Ethylbenzene	UG/M3	ND	4.0	NA		NA		NA	
m/p-Xylenes	UG/M3	ND	4.0	NA		NA		NA	
o-Xylene	UG/M3	ND	4.0	NA		NA		NA	
Toluene	UG/M3	ND	4.0	NA		NA		NA	

Date: 12/28/2007
Time: 10:09:33

Rept: AN0326

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID Job No Sample Date	Lab ID	DUP XAD EAST A07-E234 12/08/2007	A7E23404	DUPE XAD EAST A07-E616 12/17/2007	A7E61604	DUPE XAD EAST A07-E696 12/18/2007	A7E69604	EAST XAD A07-E211 12/07/2007	A7E21102
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Acenaphthylene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Anthracene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Benzo(a)anthracene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Benzo(a)pyrene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Benzo(b)fluoranthene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Benzo(ghi)perylene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Benzo(k)fluoranthene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Chrysene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Dibenz(a,h)anthracene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Fluoranthene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Fluorene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Naphthalene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Phenanthrene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4
Pyrene	UG/M3	ND	4.6	ND	3.3	ND	3.6	ND	4.4

Client ID Job No Sample Date	Lab ID	EAST XAD A07-E616 12/17/2007	A7E61602	NORTH XAD A07-E160 12/06/2007	A7E16004	NORTH XAD A07-E273 12/10/2007	A7E27302	NORTH XAD A07-E390 12/12/2007	A7E39002
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Acenaphthylene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Anthracene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Benzo(a)anthracene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Benzo(a)pyrene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Benzo(b)fluoranthene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Benzo(ghi)perylene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Benzo(k)fluoranthene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Chrysene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Dibenz(a,h)anthracene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Fluoranthene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Fluorene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Naphthalene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Phenanthrene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7
Pyrene	UG/M3	ND	4.9	ND	4.0	ND	4.0	ND	3.7

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Client ID Job No Sample Date	Lab ID	NORTH XAD A07-E696 12/18/2007	A7E69602	NORTH XAD A07-E829 12/20/2007	A7E82902	SOUTH XAD A07-D902 12/01/2007	A7D90202	SOUTH XAD A07-D989 12/04/2007	A7D98902
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Acenaphthylene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Anthracene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Benzo(a)anthracene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Benzo(a)pyrene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Benzo(b)fluoranthene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Benzo(ghi)perylene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Benzo(k)fluoranthene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Chrysene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Dibenzo(a,h)anthracene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Fluoranthene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Fluorene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Naphthalene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Phenanthrene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7
Pyrene	UG/M3	ND	4.0	ND	3.9	ND	5.0	ND	4.7

Client ID Job No Sample Date	Lab ID	SOUTH XAD A07-E160 12/06/2007	A7E16002	SOUTH XAD A07-E234 12/08/2007	A7E23402	SOUTH XAD A07-E594 12/14/2007	A7E59402	SOUTH XAD A07-E783 12/19/2007	A7E78302
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Acenaphthylene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(a)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(a)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(b)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(ghi)perylene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(k)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Chrysene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Dibenzo(a,h)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Fluorene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Naphthalene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Phenanthrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6

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Client ID	Lab ID	Units	SOUTH XAD DUPE A07-D867 11/30/2007	A7D86709	WEST XAD A07-D867 11/30/2007	A7D86708	WEST XAD A07-D904 12/03/2007	A7D90402	Sample Value	Reporting Limit
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Acenaphthylene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Anthracene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Benzo(a)anthracene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Benzo(a)pyrene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Benzo(b)fluoranthene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Benzo(ghi)perylene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Benzo(k)fluoranthene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Chrysene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Dibenzo(a,h)anthracene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Fluoranthene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Fluorene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Indeno(1,2,3-cd)pyrene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Naphthalene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Phenanthrene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	
Pyrene		UG/M3	ND	5.0	ND	5.0	ND	3.4	NA	

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Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A07-D867 A7B1919503	Method Blank(VBLK_) A07-D902 A7B1932003	Method Blank(VBLK_) A07-E160 A7B1956103	Method Blank(VBLK_) A07-E273 A7B1976503
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.0	ND	4.0
Ethylbenzene	UG/M3	ND	4.0	ND	4.0
m/p-Xylenes	UG/M3	ND	4.0	ND	4.0
o-Xylene	UG/M3	ND	4.0	ND	4.0
Toluene	UG/M3	ND	4.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A07-E390 A7B1992703	Method Blank(VBLK_) A07-E616 A7B2018303	Method Blank(VBLK_) A07-E696 A7B2027103	Method Blank(VBLK_) A07-E783 A7B2034503
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.0	ND	4.0
Ethylbenzene	UG/M3	ND	4.0	ND	4.0
m/p-Xylenes	UG/M3	ND	4.0	ND	4.0
o-Xylene	UG/M3	ND	4.0	ND	4.0
Toluene	UG/M3	ND	4.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A07-E829 A7B2045303	Method Blank(VBLK_) A07-E829 A7B2045303	Method Blank(VBLK_) A07-E829 A7B2045303	Method Blank(VBLK_) A07-E829 A7B2045303
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.0	NA	NA
Ethylbenzene	UG/M3	ND	4.0	NA	NA
m/p-Xylenes	UG/M3	ND	4.0	NA	NA
o-Xylene	UG/M3	ND	4.0	NA	NA
Toluene	UG/M3	ND	4.0	NA	NA

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A7B1925003		Method Blank(VBLK_) A7B1959303		Method Blank(VBLK_) A7B1967803		Method Blank(VBLK_) A07-E390 A7B1999603	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acenaphthylene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Anthracene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)anthracene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(b)fluoranthene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(ghi)perylene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(k)fluoranthene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chrysene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibenzo(a,h)anthracene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluoranthene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluorene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Indeno(1,2,3-cd)pyrene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Naphthalene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Phenanthrene		ND	5.0	ND	5.0	ND	5.0	ND	5.0
Pyrene		ND	5.0	ND	5.0	ND	5.0	ND	5.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A7B2010103		Method Blank(VBLK_) A07-E829 A7B2034703		Method Blank(VBLK_) A07-E273		Method Blank(VBLK_) A07-E390 A7B1999603	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Acenaphthylene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Anthracene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(a)anthracene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(a)pyrene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(b)fluoranthene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(ghi)perylene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(k)fluoranthene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Chrysene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Dibenzo(a,h)anthracene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Fluoranthene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Fluorene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Naphthalene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Phenanthrene		ND	5.0	ND	5.0	NA	5.0	NA	5.0
Pyrene		ND	5.0	ND	5.0	NA	5.0	NA	5.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-D867	Matrix Spike Blank A7B1919501	Matrix Spike Blank A07-D904	Matrix Spike Blank A7B1932001	Matrix Spike Blank A07-E211	Matrix Spike Blank A7B1956101	Matrix Spike Blank A07-E234	Matrix Spike Blank A7B1976501
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	16	4.0	17	4.0	16	4.0	17	4.0
Ethylbenzene	UG/M3	19	4.0	20	4.0	19	4.0	19	4.0
m/p-Xylenes	UG/M3	38	4.0	40	4.0	38	4.0	38	4.0
o-Xylene	UG/M3	19	4.0	19	4.0	18	4.0	19	4.0
Toluene	UG/M3	19	4.0	19	4.0	18	4.0	19	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-E390	Matrix Spike Blank A7B1992701	Matrix Spike Blank A07-E616	Matrix Spike Blank A7B2018301	Matrix Spike Blank A07-E696	Matrix Spike Blank A7B2027101	Matrix Spike Blank A07-E783	Matrix Spike Blank A7B2034501
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	17	4.0	18	4.0	17	4.0	18	4.0
Ethylbenzene	UG/M3	19	4.0	22	4.0	21	4.0	21	4.0
m/p-Xylenes	UG/M3	38	4.0	44	4.0	42	4.0	42	4.0
o-Xylene	UG/M3	19	4.0	22	4.0	20	4.0	21	4.0
Toluene	UG/M3	19	4.0	21	4.0	20	4.0	20	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-E829	Matrix Spike Blank A7B2045301	Matrix Spike Blk Dup A07-D867	Matrix Spike Blk Dup A7B1919502	Matrix Spike Blk Dup A07-D904	Matrix Spike Blk Dup A7B1932002	Matrix Spike Blk Dup A07-E160	Matrix Spike Blk Dup A7B1956102
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	17	4.0	16	4.0	17	4.0	16	4.0
Ethylbenzene	UG/M3	20	4.0	19	4.0	19	4.0	19	4.0
m/p-Xylenes	UG/M3	39	4.0	38	4.0	39	4.0	38	4.0
o-Xylene	UG/M3	19	4.0	19	4.0	19	4.0	18	4.0
Toluene	UG/M3	19	4.0	19	4.0	19	4.0	18	4.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-E234 A7B1976502		Matrix Spike Blk Dup A07-E390 A7B1992702		Matrix Spike Blk Dup A07-E616 A7B2018302		Matrix Spike Blk Dup A07-E696 A7B2027102	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene	UG/M3 UG/M3 UG/M3 UG/M3 UG/M3	16	4.0	17	4.0	19	4.0	17	4.0
		19	4.0	19	4.0	22	4.0	20	4.0
		38	4.0	38	4.0	44	4.0	40	4.0
		18	4.0	19	4.0	22	4.0	20	4.0
		18	4.0	19	4.0	21	4.0	19	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-E783 A7B2034502		Matrix Spike Blk Dup A07-E829 A7B2045302		Matrix Spike Blk Dup A07-E829 A7B2045302		Matrix Spike Blk Dup A07-E829 A7B2045302	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene	UG/M3 UG/M3 UG/M3 UG/M3 UG/M3	17	4.0	17	4.0	NA	4.0	NA	4.0
		20	4.0	20	4.0	NA	4.0	NA	4.0
		41	4.0	40	4.0	NA	4.0	NA	4.0
		20	4.0	20	4.0	NA	4.0	NA	4.0
		20	4.0	19	4.0	NA	4.0	NA	4.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-D867	Matrix Spike Blank A07-E160	Matrix Spike Blank A07-E273	Matrix Spike Blank A07-E390
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	8.5	5.0	7.9	5.0
Acenaphthylene	UG/M3	8.5	5.0	7.9	5.0
Anthracene	UG/M3	8.5	5.0	8.2	5.0
Benzo(a)anthracene	UG/M3	8.1	5.0	7.6	5.0
Benzo(b)fluoranthene	UG/M3	8.2	5.0	7.4	5.0
Benzo(ghi)perylene	UG/M3	7.9	5.0	7.3	5.0
Benzo(k)fluoranthene	UG/M3	8.0	5.0	8.0	5.0
Chrysene	UG/M3	8.5	5.0	7.4	5.0
Dibenz(a,h)anthracene	UG/M3	7.8	5.0	12	5.0
Fluoranthene	UG/M3	8.7	5.0	7.8	5.0
Fluorene	UG/M3	8.7	5.0	8.0	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.0	5.0	8.1	5.0
Naphthalene	UG/M3	7.8	5.0	7.2	5.0
Phenanthrene	UG/M3	8.8	5.0	8.0	5.0
Pyrene	UG/M3	8.7	5.0	7.9	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A07-E616	Matrix Spike Blank A07-E829	Matrix Spike Blank A07-D902	Matrix Spike Blk Dup A07-D989
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	7.4	5.0	8.3	5.0
Acenaphthylene	UG/M3	7.5	5.0	8.4	5.0
Anthracene	UG/M3	7.6	5.0	8.6	5.0
Benzo(a)anthracene	UG/M3	7.1	5.0	8.2	5.0
Benzo(a)pyrene	UG/M3	6.8	5.0	7.8	5.0
Benzo(b)fluoranthene	UG/M3	6.7	5.0	7.8	5.0
Benzo(ghi)perylene	UG/M3	6.6	5.0	7.6	5.0
Benzo(k)fluoranthene	UG/M3	6.6	5.0	7.7	5.0
Chrysene	UG/M3	6.8	5.0	8.1	5.0
Dibenz(a,h)anthracene	UG/M3	6.8	5.0	7.5	5.0
Fluoranthene	UG/M3	7.3	5.0	8.4	5.0
Fluorene	UG/M3	7.5	5.0	8.5	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	6.6	5.0	7.6	5.0
Naphthalene	UG/M3	7.4	5.0	7.9	5.0
Phenanthrene	UG/M3	7.5	5.0	8.6	5.0
Pyrene	UG/M3	7.3	5.0	8.4	5.0

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NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A07-E234	Matrix Spike Blk Dup A7B1967802	Matrix Spike Blk Dup A07-E390	Matrix Spike Blk Dup A7B1999602	Matrix Spike Blk Dup A07-E616	Matrix Spike Blk Dup A7B2010102	Matrix Spike Blk Dup A07-E783	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	8.8	5.0	8.4	5.0	7.4	5.0	7.7	5.0
Acenaphthylene	UG/M3	8.8	5.0	8.5	5.0	7.5	5.0	7.8	5.0
Anthracene	UG/M3	8.9	5.0	8.8	5.0	7.9	5.0	7.9	5.0
Benzo(a)anthracene	UG/M3	8.2	5.0	8.5	5.0	7.5	5.0	7.4	5.0
Benzo(a)pyrene	UG/M3	7.9	5.0	7.8	5.0	7.1	5.0	7.2	5.0
Benzo(b)fluoranthene	UG/M3	7.9	5.0	7.8	5.0	7.1	5.0	7.1	5.0
Benzo(ghi)perylene	UG/M3	7.7	5.0	7.5	5.0	6.9	5.0	6.8	5.0
Benzo(k)fluoranthene	UG/M3	7.8	5.0	7.7	5.0	7.0	5.0	7.1	5.0
Chrysene	UG/M3	7.8	5.0	7.9	5.0	7.2	5.0	7.1	5.0
Dibenzo(a,h)anthracene	UG/M3	8.4	5.0	7.8	5.0	7.1	5.0	7.1	5.0
Fluoranthene	UG/M3	8.6	5.0	8.6	5.0	7.6	5.0	7.7	5.0
Fluorene	UG/M3	8.9	5.0	8.6	5.0	7.7	5.0	7.9	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	7.9	5.0	7.6	5.0	7.0	5.0	7.0	5.0
Naphthalene	UG/M3	8.3	5.0	8.3	5.0	6.9	5.0	7.4	5.0
Phenanthrene	UG/M3	8.8	5.0	8.7	5.0	7.8	5.0	7.8	5.0
Pyrene	UG/M3	8.6	5.0	8.5	5.0	7.8	5.0	7.6	5.0

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1919503 A7B1919501 A7B1919502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.5	16.5	20.0	20.0	83	83	30.0	61-131
Toluene	UG/M3	18.6	18.8	20.0	20.0	93	94	30.0	64-137
Ethylbenzene	UG/M3	19.1	19.2	20.0	20.0	96	96	30.0	66-147
m/p-Xylenes	UG/M3	38.1	38.4	40.0	40.0	95	96	30.0	65-141
o-Xylene	UG/M3	18.8	18.9	20.0	20.0	94	95	30.0	64-139

SDG: D867

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1925003 A7B1925001 A7B1925002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		% RPD
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	7.82	7.50	10.0	10.0	78	75	77	4	30.0 49-141
Benzo(a)anthracene	UG/M3	8.51	8.15	10.0	10.0	85	82	84	4	30.0 59-136
Anthracene	UG/M3	8.82	8.55	10.0	10.0	88	86	87	2	30.0 60-134
Acenaphthene	UG/M3	8.54	8.34	10.0	10.0	85	83	84	2	30.0 63-134
Naphthalene	UG/M3	7.85	7.93	10.0	10.0	78	79	79	1	30.0 63-134
Chrysene	UG/M3	8.49	8.10	10.0	10.0	85	81	83	5	30.0 59-137
Benzo(a)pyrene	UG/M3	8.14	7.77	10.0	10.0	87	78	80	4	30.0 58-140
Pyrene	UG/M3	8.72	8.45	10.0	10.0	81	84	86	4	30.0 64-133
Acenaphthylene	UG/M3	8.53	8.35	10.0	10.0	85	84	85	1	30.0 62-135
Indeno(1,2,3-cd)pyrene	UG/M3	7.97	7.62	10.0	10.0	80	76	78	5	30.0 47-140
Benzo(k)fluoranthene	UG/M3	8.16	7.81	10.0	10.0	82	78	80	5	30.0 60-138
Benzo(k)fluoranthene	UG/M3	8.05	7.74	10.0	10.0	80	77	79	4	30.0 45-137
Phenanthrene	UG/M3	8.76	8.56	10.0	10.0	88	86	87	2	30.0 63-133
Fluorene	UG/M3	8.72	8.53	10.0	10.0	87	85	86	2	30.0 64-134
Fluoranthene	UG/M3	8.69	8.37	10.0	10.0	87	84	86	4	30.0 63-132
Benzo(ghi)perylene	UG/M3	7.89	7.55	10.0	10.0	79	76	78	4	30.0 59-139

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1932003 A7B1932001 A7B1932002

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SB	SBD	SB	SBD	Avg	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS												
Benzene	UG/M3	17.1	16.8	20.0	20.0	20.0	86	84	85	2	30.0	61-131
Toluene	UG/M3	19.2	18.8	20.0	20.0	20.0	96	94	95	2	30.0	64-137
Ethylbenzene	UG/M3	19.8	19.4	20.0	20.0	20.0	99	97	98	2	30.0	66-147
m/p-Xylenes	UG/M3	39.5	38.7	40.0	40.0	40.0	99	97	98	2	30.0	65-141
o-Xylene	UG/M3	19.3	19.0	20.0	20.0	20.0	97	95	96	2	30.0	64-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: D867

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank A7B1956101 Matrix Spike Blk Dup A7B1956102
 Lab Sample ID: A7B1956103

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	16.3	16.3	20.0	20.0	82	82	82	0	30.0	61-131
Toluene	UG/M3	18.2	18.3	20.0	20.0	91	92	92	1	30.0	64-137
Ethylbenzene	UG/M3	18.8	18.8	20.0	20.0	94	94	94	0	30.0	66-147
m/p-Xylenes	UG/M3	37.6	37.5	40.0	40.0	94	94	94	0	30.0	65-141
o-Xylene	UG/M3	18.4	18.4	20.0	20.0	92	92	92	0	30.0	64-139

SPG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B195303 A7B195301 A7B195302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		spike blank	spike blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	6.24	5.58	10.0	10.0	62	56	59	10	30.0	49-141
Benzo(a)anthracene	UG/M3	6.62	6.16	10.0	10.0	66	62	64	6	30.0	59-136
Anthracene	UG/M3	6.94	6.69	10.0	10.0	69	67	68	3	30.0	60-134
Acenaphthene	UG/M3	6.86	6.48	10.0	10.0	69	65	67	6	30.0	63-134
Naphthalene	UG/M3	6.95	6.55	10.0	10.0	70	66	68	6	30.0	63-134
Chrysene	UG/M3	6.52	6.10	10.0	10.0	65	61	63	6	30.0	59-137
Benzo(a)pyrene	UG/M3	6.40	5.87	10.0	10.0	64	59	62	8	30.0	58-140
Pyrene	UG/M3	6.84	6.39	10.0	10.0	68	64	66	6	30.0	64-133
Acenaphthylene	UG/M3	6.93	6.60	10.0	10.0	69	66	68	4	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	6.32	5.62	10.0	10.0	63	56	60	12	30.0	47-140
Benzo(b)fluoranthene	UG/M3	6.34	5.80	10.0	10.0	63	58 *	61	8	30.0	60-138
Benzo(k)fluoranthene	UG/M3	6.29	5.75	10.0	10.0	63	58	61	8	30.0	45-137
Phenanthrene	UG/M3	6.93	6.67	10.0	10.0	69	67	68	3	30.0	63-133
Fluorene	UG/M3	6.99	6.65	10.0	10.0	70	66	68	6	30.0	64-134
Fluoranthene	UG/M3	6.81	6.39	10.0	10.0	68	64	66	6	30.0	63-132
Benzo(ghi)perylene	UG/M3	6.23	5.60	10.0	10.0	62	56 *	59	10	30.0	59-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike BLK Dup
 Lab Sample ID: A7B1967803 A7B1967801 A7B1967802

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		% RPD		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	11.6	8.40	10.0	10.0	116	84	100	32	30.0	49-141
Benzo(a)anthracene	UG/M3	7.65	8.16	10.0	10.0	76	82	79	8	30.0	59-136
Anthracene	UG/M3	8.15	8.87	10.0	10.0	82	89	86	8	30.0	60-134
Acenaphthene	UG/M3	7.87	8.77	10.0	10.0	79	88	84	11	30.0	63-134
Naphthalene	UG/M3	7.23	8.26	10.0	10.0	72	83	78	14	30.0	63-134
Chrysene	UG/M3	7.35	7.80	10.0	10.0	74	78	76	5	30.0	59-137
Benzo(a)pyrene	UG/M3	7.40	7.88	10.0	10.0	74	79	77	6	30.0	58-140
Pyrene	UG/M3	7.90	8.58	10.0	10.0	79	86	83	8	30.0	64-133
Acenaphthylene	UG/M3	7.86	8.76	10.0	10.0	79	88	84	11	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	8.11	7.89	10.0	10.0	81	79	80	2	30.0	47-140
Benzo(b)fluoranthene	UG/M3	7.40	7.87	10.0	10.0	74	79	77	6	30.0	60-138
Benzo(k)fluoranthene	UG/M3	8.05	7.84	10.0	10.0	80	78	79	2	30.0	45-137
Phenanthrene	UG/M3	8.00	8.81	10.0	10.0	80	88	84	10	30.0	63-133
Fluorene	UG/M3	8.03	8.91	10.0	10.0	80	89	85	11	30.0	64-134
Fluoranthene	UG/M3	7.84	8.55	10.0	10.0	78	86	82	10	30.0	63-132
Benzo(ghi)perylene	UG/M3	7.26	7.72	10.0	10.0	73	77	75	5	30.0	59-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1976503 A7B1976501 A7B1976502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.7	16.5	20.0	20.0	84	83	84	30.0
Toluene	UG/M3	18.6	18.3	20.0	20.0	93	92	93	30.0
Ethylbenzene	UG/M3	19.3	18.8	20.0	20.0	97	94	96	30.0
m/p-Xylenes	UG/M3	38.5	37.5	40.0	40.0	96	94	95	30.0
o-Xylene	UG/M3	18.9	18.4	20.0	20.0	95	92	94	30.0

SDG: D867

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1992703 A7B1992701 A7B1992702 A7B1992702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	16.7	16.6	20.0	20.0	84	83	84	1	30.0	61-131
Toluene	UG/M3	18.7	18.6	20.0	20.0	94	93	94	1	30.0	64-137
Ethylbenzene	UG/M3	19.3	19.1	20.0	20.0	97	96	97	1	30.0	66-147
m/p-Xylenes	UG/M3	38.5	38.1	40.0	40.0	96	95	96	1	30.0	65-141
o-Xylene	UG/M3	18.9	18.8	20.0	20.0	95	94	95	1	30.0	64-139

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B1999603 A7B1999601 A7B1999602 A7B1999601

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		spike Blank	spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	6.38	7.76	10.0	10.0	64	78	71	20	30.0	49-141
Benzo(a)anthracene	UG/M3	6.82	8.31	10.0	10.0	68	83	76	20	30.0	59-136
Anthracene	UG/M3	7.09	8.76	10.0	10.0	71	88	80	21	30.0	60-134
Acenaphthene	UG/M3	6.67	8.45	10.0	10.0	67	84	76	22	30.0	63-134
Naphthalene	UG/M3	6.16	8.26	10.0	10.0	62 *	83	73	29	30.0	63-134
Chrysene	UG/M3	6.51	7.93	10.0	10.0	65	79	72	19	30.0	59-137
Benzo(a)pyrene	UG/M3	6.46	7.82	10.0	10.0	65	78	72	18	30.0	58-140
Pyrene	UG/M3	7.01	8.49	10.0	10.0	70	85	78	19	30.0	64-133
Acenaphthylene	UG/M3	6.72	8.50	10.0	10.0	67	85	76	24	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	6.31	7.64	10.0	10.0	63	76	70	19	30.0	47-140
Benzo(b)fluoranthene	UG/M3	6.47	7.78	10.0	10.0	65	78	72	18	30.0	60-138
Benzo(k)fluoranthene	UG/M3	6.41	7.69	10.0	10.0	64	77	71	18	30.0	45-137
Phenanthrene	UG/M3	7.02	8.68	10.0	10.0	70	87	79	22	30.0	63-133
Fluorene	UG/M3	6.91	8.63	10.0	10.0	69	86	78	22	30.0	64-134
Fluoranthene	UG/M3	7.03	8.56	10.0	10.0	70	86	78	20	30.0	63-132
Benzo(ghi)perylene	UG/M3	6.34	7.49	10.0	10.0	63	75	69	17	30.0	59-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B2010103 A7B2010101 A7B2010102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG		
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	6.81	7.07	10.0	10.0	68	71	70	30.0	49-141
Benzo(a)anthracene	UG/M3	7.07	7.48	10.0	10.0	71	75	73	30.0	59-136
Anthracene	UG/M3	7.55	7.90	10.0	10.0	76	79	78	30.0	60-134
Acenaphthene	UG/M3	7.38	7.44	10.0	10.0	74	74	74	30.0	63-134
Naphthalene	UG/M3	7.35	6.90	10.0	10.0	74	69	72	30.0	63-134
Chrysene	UG/M3	6.81	7.19	10.0	10.0	68	72	70	30.0	59-137
Benzo(a)pyrene	UG/M3	6.77	7.10	10.0	10.0	68	71	70	30.0	58-140
Pyrene	UG/M3	7.34	7.76	10.0	10.0	73	78	76	30.0	64-133
Acenaphthylene	UG/M3	7.52	7.47	10.0	10.0	75	75	75	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	6.65	7.05	10.0	10.0	66	70	68	30.0	47-140
Benzo(b)fluoranthene	UG/M3	6.74	7.07	10.0	10.0	67	71	69	30.0	60-138
Benzo(k)fluoranthene	UG/M3	6.65	7.00	10.0	10.0	66	70	68	30.0	45-137
Phenanthrene	UG/M3	7.50	7.78	10.0	10.0	75	78	77	30.0	63-133
Fluorene	UG/M3	7.51	7.66	10.0	10.0	75	77	76	30.0	64-134
Fluoranthene	UG/M3	7.31	7.65	10.0	10.0	73	76	75	30.0	63-132
Benzo(ghi)perylene	UG/M3	6.59	6.94	10.0	10.0	66	69	68	30.0	59-139

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A782018303 A782018301 A782018302

Analyte	Units of Measure	Concentration		Spike Amount			% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS												
Benzene	UG/M3	18.4	18.7	20.0	20.0	20.0	92	94	93	2	30.0	61-131
Toluene	UG/M3	21.1	21.4	20.0	20.0	20.0	106	107	107	0	30.0	64-137
Ethylbenzene	UG/M3	22.1	22.2	20.0	20.0	20.0	111	111	111	0	30.0	66-147
m/p-Xylenes	UG/M3	44.1	44.2	40.0	40.0	40.0	110	111	111	0	30.0	65-141
o-Xylene	UG/M3	21.6	21.7	20.0	20.0	20.0	108	108	108	0	30.0	64-139

SD6: D867

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank A7B2027103 Matrix Spike Blk Dup A7B2027102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	17.4	16.7	20.0	20.0	87	84	86	4	30.0	61-131
Toluene	UG/M3	20.0	19.3	20.0	20.0	100	97	99	3	30.0	64-137
Ethylbenzene	UG/M3	21.0	20.2	20.0	20.0	105	101	103	4	30.0	66-147
m/p-Xylenes	UG/M3	41.8	40.2	40.0	40.0	104	101	103	3	30.0	65-141
o-Xylene	UG/M3	20.5	19.8	20.0	20.0	103	99	101	4	30.0	64-139

SPG: D867
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B2034503 A7B2034501 A7B2034502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		GC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS								
Benzene	UG/M3	17.5	17.0	20.0	20.0	88	85	30.0 61-131
Toluene	UG/M3	20.2	19.5	20.0	20.0	101	98	30.0 64-137
Ethylbenzene	UG/M3	21.1	20.4	20.0	20.0	106	102	30.0 66-147
m/p-Xylenes	UG/M3	42.1	40.6	40.0	40.0	105	102	30.0 65-141
o-Xylene	UG/M3	20.7	19.9	20.0	20.0	104	100	30.0 64-139

SDE: D867

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B2034703 A7B2034701 A7B2034702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenz(a,h)anthracene	UG/M3	6.51	7.13	10.0	10.0	65	71	68	30.0	49-141
Benzo(a)anthracene	UG/M3	6.78	7.38	10.0	10.0	68	74	71	30.0	59-136
Anthracene	UG/M3	7.32	7.89	10.0	10.0	73	79	76	30.0	60-134
Acenaphthene	UG/M3	7.20	7.70	10.0	10.0	72	77	75	30.0	63-134
Naphthalene	UG/M3	7.15	7.41	10.0	10.0	72	74	73	30.0	63-134
Chrysene	UG/M3	6.49	7.10	10.0	10.0	65	71	68	30.0	59-137
Benzo(a)pyrene	UG/M3	6.59	7.23	10.0	10.0	66	72	69	30.0	58-140
Pyrene	UG/M3	6.97	7.64	10.0	10.0	70	76	73	30.0	64-133
Acenaphthylene	UG/M3	7.29	7.83	10.0	10.0	73	78	76	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	6.36	7.05	10.0	10.0	64	70	67	30.0	47-140
Benzo(b)fluoranthene	UG/M3	6.48	7.10	10.0	10.0	65	71	68	30.0	60-138
Benzo(k)fluoranthene	UG/M3	6.48	7.06	10.0	10.0	65	71	68	30.0	45-137
Phenanthrene	UG/M3	7.31	7.83	10.0	10.0	73	78	76	30.0	63-133
Fluorene	UG/M3	7.31	7.87	10.0	10.0	73	79	76	30.0	64-134
Fluoranthene	UG/M3	7.04	7.66	10.0	10.0	70	77	74	30.0	63-132
Benzo(ghi)perylene	UG/M3	6.32	6.84	10.0	10.0	63	68	66	30.0	59-139

SDG: D867

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A7B2045303 A7B2045301 A7B2045302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG		
NIOSH METHOD 1501 AROMATIC HYDROCARBONS										
Benzene	UG/M3	16.7	17.2	20.0	20.0	84	86	85	30.0	61-131
Toluene	UG/M3	18.8	19.3	20.0	20.0	94	97	96	30.0	64-137
Ethylbenzene	UG/M3	19.5	20.0	20.0	20.0	98	100	99	30.0	66-147
m/p-Xylenes	UG/M3	38.9	39.9	40.0	40.0	97	100	99	30.0	65-141
o-Xylene	UG/M3	19.1	19.6	20.0	20.0	96	98	97	30.0	64-139

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	DUP ANASORB SOUTH A07-E234 A7E23403	DUP XAD EAST A07-E234 A7E23404	DUPE ANASORB EAST A07-E390 A7E39003	DUPE ANASORB SOUTH A07-E616 A7E61603	DUPE ANASORB SOUTH A07-E696 A7E69603
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/08/2007 15:30 12/10/2007 09:00 12/12/2007 12:51 - YES AIR 2.0 0.653 LITERS	NA	12/12/2007 08:45 12/13/2007 10:49 - YES AIR 2.0 0.563 LITERS	12/17/2007 15:30 12/18/2007 09:40 12/19/2007 11:24 - YES AIR 2.0 0.599 LITERS	12/18/2007 15:30 12/19/2007 09:30 12/20/2007 13:39 - YES AIR 2.0 0.562 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	DUP ANASORB SOUTH A07-E234 A7E23403	DUP XAD EAST A07-E234 A7E23404	DUPE ANASORB EAST A07-E390 A7E39003	DUPE ANASORB SOUTH A07-E616 A7E61603	DUPE ANASORB SOUTH A07-E696 A7E69603
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	12/08/2007 15:30 12/10/2007 09:00 12/11/2007 14:13 - YES AIR 1.0 1.096 LITERS	NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	DUPE NORTH ANASORB A07-E160 A7E16003	DUPE XAD EAST A07-E616 A7E61604	DUPE XAD EAST A07-E696 A7E69604	EAST ANASORB A07-E211 A7E21101	EAST ANASORB A07-E616 A7E61601
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/06/2007 15:30 12/07/2007 11:45 12/08/2007 13:58 - YES AIR 2.0 0.599 LITERS	NA	NA	12/07/2007 15:30 12/08/2007 09:00 12/08/2007 17:21 - YES AIR 2.0 0.829 LITERS	12/17/2007 15:30 12/18/2007 09:40 12/19/2007 11:04 - YES AIR 2.0 0.968 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	DUPE NORTH ANASORB A07-E160 A7E16003	DUPE XAD EAST A07-E616 A7E61604	DUPE XAD EAST A07-E696 A7E69604	EAST ANASORB A07-E211 A7E21101	EAST ANASORB A07-E616 A7E61601
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	12/17/2007 15:30 12/18/2007 09:40 12/18/2007 14:29 - YES AIR 1.0 1.497 LITERS	12/18/2007 15:30 12/19/2007 09:30 12/21/2007 15:53 - YES AIR 1.0 1.395 LITERS	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST XAD A07-E211 A7E21102	EAST XAD A07-E616 A7E61602	NORTH ANA DUPE A07-D989 A7D98903	NORTH ANASORB A07-E273 A7E27301	NORTH ANASORB A07-E390 A7E39001
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	12/04/2007 15:30 12/05/2007 13:00 12/08/2007 13:19 - YES AIR 2.0 0.592 LITERS	12/10/2007 15:30 12/11/2007 09:15 12/12/2007 13:20 - YES AIR 2.0 1.082 LITERS	12/12/2007 08:45 12/13/2007 08:45 12/14/2007 10:30 - YES AIR 2.0 1.023 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A07-E211 A7E21102	EAST XAD A07-E616 A7E61602	NORTH ANA DUPE A07-D989 A7D98903	NORTH ANASORB A07-E273 A7E27301	NORTH ANASORB A07-E390 A7E39001
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/07/2007 15:30 12/08/2007 09:00 12/09/2007 14:48 - YES AIR 1.0 1.139 LITERS	12/17/2007 15:30 12/18/2007 09:40 12/18/2007 13:19 - YES AIR 1.0 1.016 LITERS	NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A07-E829 A7E82901	NORTH XAD A07-E160 A7E16004	NORTH XAD A07-E273 A7E27302	NORTH XAD A07-E390 A7E39002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/20/2007 15:30 12/21/2007 09:30 12/23/2007 11:52 - YES AIR 2.0 0.983 LITERS	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A07-E829 A7E82901	NORTH XAD A07-E160 A7E16004	NORTH XAD A07-E273 A7E27302	NORTH XAD A07-E390 A7E39002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	12/06/2007 15:30 12/07/2007 11:45 12/09/2007 14:14 - YES AIR 1.0 1.241 LITERS	12/10/2007 15:30 12/11/2007 09:15 12/11/2007 15:57 - YES AIR 1.0 1.238 LITERS	12/12/2007 08:45 12/13/2007 08:45 12/15/2007 11:50 - YES AIR 1.0 1.337 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A07-E160 A7E16001	SOUTH ANASORB A07-E234 A7E23401	SOUTH ANASORB A07-E594 A7E59401	SOUTH ANASORB A07-E783 A7E78301	SOUTH XAD A07-D902 A7D90202
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/06/2007 15:30 12/07/2007 11:45 12/08/2007 13:48 - YES AIR 2.0 0.808 LITERS	12/08/2007 15:30 12/10/2007 09:00 12/12/2007 12:31 - YES AIR 2.0 1.126 LITERS	12/14/2007 15:30 12/15/2007 09:15 12/19/2007 10:44 - YES AIR 2.0 1.244 LITERS	12/19/2007 15:30 12/20/2007 09:40 12/21/2007 10:05 - YES AIR 2.0 1.181 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A07-E160 A7E16001	SOUTH ANASORB A07-E234 A7E23401	SOUTH ANASORB A07-E594 A7E59401	SOUTH ANASORB A07-E783 A7E78301	SOUTH XAD A07-D902 A7D90202
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	NA	12/01/2007 15:30 12/04/2007 09:00 12/04/2007 15:28 - YES AIR 1.0 1.005 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab sample ID	SOUTH XAD A07-D989 A7D98902	SOUTH XAD A07-E160 A7E16002	SOUTH XAD A07-E234 A7E23402	SOUTH XAD A07-E594 A7E59402	SOUTH XAD A07-E783 A7E78302
Sample Date	12/04/2007 15:30	12/06/2007 15:30	12/08/2007 15:30	12/14/2007 15:30	12/19/2007 15:30
Received Date	12/05/2007 13:00	12/07/2007 11:45	12/10/2007 09:00	12/15/2007 09:15	12/20/2007 09:40
Extraction Date	12/09/2007 13:04	12/09/2007 13:39	12/11/2007 13:03	12/18/2007 11:45	12/21/2007 17:02
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.065	1.085	1.079	1.068	1.091
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH XAD DUPE A07-D867 A7D86709	WEST ANASORB A07-D867 A7D86707	WEST ANASORB A07-D904 A7D90401	WEST XAD A07-D867 A7D86708	WEST XAD A07-D904 A7D90402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	11/30/2007 15:30 12/01/2007 09:00 12/03/2007 13:39 - YES AIR 2.0 0.5 LITERS	12/03/2007 15:30 12/04/2007 09:00 12/05/2007 09:52 - YES AIR 2.0 0.994 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD DUPE A07-D867 A7D86709	WEST ANASORB A07-D867 A7D86707	WEST ANASORB A07-D904 A7D90401	WEST XAD A07-D867 A7D86708	WEST XAD A07-D904 A7D90402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	11/30/2007 15:30 12/01/2007 09:00 12/04/2007 13:14 - YES AIR 1.0 1.0 LITERS	NA	NA	11/30/2007 15:30 12/01/2007 09:00 12/04/2007 12:04 - YES AIR 1.0 1.0 LITERS	12/03/2007 15:30 12/04/2007 09:00 12/04/2007 16:38 - YES AIR 1.0 1.482 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D867 A7B1925001	Matrix Spike Blank A07-D904 A7B1932001	Matrix Spike Blank A07-E211 A7B1956101	Matrix Spike Blank A07-E160 A7B1959301
Sample Date Received Date Extraction Date Analysis Date Extraction HI Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/03/2007 11:45 - - AIR 1.0 0.5 LITERS	12/05/2007 09:12 - - AIR 1.0 0.5 LITERS	12/08/2007 12:40 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-D867 A7B1925001	Matrix Spike Blank A07-D904 A7B1932001	Matrix Spike Blank A07-E211 A7B1956101	Matrix Spike Blank A07-E160 A7B1959301
Sample Date Received Date Extraction Date Analysis Date Extraction HI Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/04/2007 10:55 - - AIR 1.0 1.0 LITERS	NA	NA	12/09/2007 11:55 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-E273 A7B1967801	Matrix Spike Blank A07-E234 A7B1976501	Matrix Spike Blank A07-E390 A7B1992701	Matrix Spike Blank A07-E390 A7B1999601	Matrix Spike Blank A07-E616 A7B2010101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	12/12/2007 12:12 - AIR 1.0 0.5 LITERS	12/14/2007 10:10 - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-E273 A7B1967801	Matrix Spike Blank A07-E234 A7B1976501	Matrix Spike Blank A07-E390 A7B1992701	Matrix Spike Blank A07-E390 A7B1999601	Matrix Spike Blank A07-E616 A7B2010101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/11/2007 11:54 - AIR 1.0 LITERS	NA	NA	12/15/2007 10:41 - AIR 1.0 LITERS	12/18/2007 10:35 - AIR 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-E616 A7B2018301	Matrix Spike Blank A07-E696 A7B2027101	Matrix Spike Blank A07-E783 A7B2034501	Matrix Spike Blank A07-E829 A7B2034701	Matrix Spike Blank A07-E829 A7B2045301
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/19/2007 10:24 - - - AIR 1.0 0.5 LITERS	12/20/2007 13:00 - - - AIR 1.0 0.5 LITERS	12/21/2007 09:45 - - - AIR 1.0 0.5 LITERS	NA - - - AIR 1.0 0.5 LITERS	12/23/2007 11:33 - - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A07-E616 A7B2018301	Matrix Spike Blank A07-E696 A7B2027101	Matrix Spike Blank A07-E783 A7B2034501	Matrix Spike Blank A07-E829 A7B2034701	Matrix Spike Blank A07-E829 A7B2045301
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA - - - NA - - - AIR 1.0 0.5 LITERS	NA - - - NA - - - AIR 1.0 0.5 LITERS	NA - - - NA - - - AIR 1.0 0.5 LITERS	12/21/2007 13:34 - - - AIR 1.0 1.0 LITERS	NA - - - NA - - - AIR 1.0 0.5 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-D902 A7B1925002	Matrix Spike Blk Dup A07-D904 A7B1932002	Matrix Spike Blk Dup A07-E160 A7B1956102	Matrix Spike Blk Dup A07-D989 A7B1959302
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/03/2007 11:54 - - AIR 1.0 0.5 LITERS	12/05/2007 09:22 - - AIR 1.0 0.5 LITERS	12/08/2007 12:50 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-D902 A7B1925002	Matrix Spike Blk Dup A07-D904 A7B1932002	Matrix Spike Blk Dup A07-E160 A7B1956102	Matrix Spike Blk Dup A07-D989 A7B1959302
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/04/2007 11:30 - - AIR 1.0 1.0 LITERS	NA	NA	12/09/2007 12:29 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-E234 A7B1967802	Matrix Spike Blk Dup A07-E234 A7B1976502	Matrix Spike Blk Dup A07-E390 A7B1992702	Matrix Spike Blk Dup A07-E390 A7B1999602	Matrix Spike Blk Dup A07-E616 A7B2010102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	12/12/2007 12:22 - - AIR 1.0 0.5 LITERS	12/14/2007 10:20 - - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A07-E234 A7B1967802	Matrix Spike Blk Dup A07-E234 A7B1976502	Matrix Spike Blk Dup A07-E390 A7B1992702	Matrix Spike Blk Dup A07-E390 A7B1999602	Matrix Spike Blk Dup A07-E616 A7B2010102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/11/2007 12:29 - - AIR 1.0 1.0 LITERS	NA	NA	12/15/2007 11:15 - - AIR 1.0 1.0 LITERS	12/18/2007 11:10 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D867 A7B1919503	Method Blank(VBLK_) A07-D902 A7B1932003	Method Blank(VBLK_) A07-E160 A7B1956103	Method Blank(VBLK_) A07-E160 A7B1959303
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/03/2007 11:35 - - AIR 1.0 0.5 LITERS	12/05/2007 09:03 - - AIR 1.0 0.5 LITERS	12/08/2007 12:30 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-D867 A7B1925003	Method Blank(VBLK_) A07-D902 A7B1932003	Method Blank(VBLK_) A07-E160 A7B1956103	Method Blank(VBLK_) A07-E160 A7B1959303
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/04/2007 10:20 - - AIR 1.0 1.0 LITERS	NA	NA	12/09/2007 11:20 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-E273 A7B19767803	Method Blank(VBLK_) A07-E273 A7B1976503	Method Blank(VBLK_) A07-E390 A7B1992703	Method Blank(VBLK_) A07-E390 A7B1999603	Method Blank(VBLK_) A07-E594 A7B2010103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	12/12/2007 12:02 - AIR 1.0 0.5 LITERS	12/14/2007 10:01 - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A07-E273 A7B1967803	Method Blank(VBLK_) A07-E273 A7B1976503	Method Blank(VBLK_) A07-E390 A7B1992703	Method Blank(VBLK_) A07-E390 A7B1999603	Method Blank(VBLK_) A07-E594 A7B2010103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/11/2007 11:19 - AIR 1.0 1.0 LITERS	NA	NA	12/15/2007 10:06 - AIR 1.0 1.0 LITERS	12/18/2007 10:01 - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_)) A07-E616 A7B2018303	Method Blank(VBLK_)) A07-E696 A7B2027103	Method Blank(VBLK_)) A07-E783 A7B2034503	Method Blank(VBLK_)) A07-E829 A7B2034703	Method Blank(VBLK_)) A07-E829 A7B2045303
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	12/19/2007 10:14 - - AIR 1.0 0.5 LITERS	12/20/2007 12:51 - - AIR 1.0 0.5 LITERS	12/21/2007 09:35 - - AIR 1.0 0.5 LITERS	NA	12/23/2007 11:23 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_)) A07-E616 A7B2018303	Method Blank(VBLK_)) A07-E696 A7B2027103	Method Blank(VBLK_)) A07-E783 A7B2034503	Method Blank(VBLK_)) A07-E829 A7B2034703	Method Blank(VBLK_)) A07-E829 A7B2045303
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	12/21/2007 12:59 - - AIR 1.0 1.0 LITERS	NA

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **11-30-07** Chain of Custody Number: **369952**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond Former MGP IN** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH					
North Anasorb	11-30-07	15:30	✓													1000 Flow Vial L/MIN	540
North Xad	11-30-07	15:30	✓														540
South Anasorb	11-30-07	15:30	✓														540
South Xad	11-30-07	15:30	✓														540
East Anasorb	11-30-07	15:30	✓														540
East Xad	11-30-07	15:30	✓														540
West Anasorb	11-30-07	15:30	✓														540
West Xad	11-30-07	15:30	✓														540
South Xad Dupe	11-30-07	15:30	✓														540
South Ana Dupe	11-30-07	15:30	✓														540

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **scope comments**

1. Relinquished By: **[Signature]** Date: **11-30-07** Time: **15:30** 1. Received By: **[Signature]** Date: **12-1-08** Time: **09:08**

2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: **X Indicates priority samples w/ 1-3 T.A.T. A Hold others. 3.9**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

IL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demms** Date: **12-1-07** Chain of Custody Number: **369654**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond Opland Remediation** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH
North Anasorb	12-1-07	15:30	X												1071 1.984 540
North Xad	12-1-07	15:30	X												1180 2.196 540
South Anasorb	12-1-07	15:30	X												1216 2.252 540
South Xad	12-1-07	15:30	X												1005 1.862 540
West Anasorb	12-1-07	15:30	X												788 1.460 540
West Xad	12-1-07	15:30	X												1431 2.650 540
East Anasorb	12-1-07	15:30	X												987 1.649 540
East Xad	12-1-07	15:30	X												1122 2.078 540
Dupe East Anasorb	12-1-07	15:30	X												560 1.037 540
Dupe South Xad	12-1-07	15:30	X												1116 2.067 540

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): _____

Relinquished By: *[Signature]* Date: **12-1-07** Time: **15:30**

Relinquished By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Comments: **# SE indicates priority samples w/ 3 T.A.T. Hold orders**

Distribution: **WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy**

203.40c

2

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **12-3-07** Chain of Custody Number: **3099995**

Address: **40123 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J. Hunt)** Lab Number: _____ Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond Former MCP** Carrier/Waybill Number: _____

Sample I.D. No. and Description <small>(Containers for each sample may be combined on one line)</small>	Date	Time	Matrix			Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Aqueous	Sol	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH
North Anasorb	12-3-07	15:30	X			X						540 2.011 1086
North Xad	12-3-07	15:30	X			X						540 2.401 1297
South Anasorb	12-3-07	15:30	X			X						540 1.765 953
South Xad	12-3-07	15:30	X			X						540 2.000 1080
East Anasorb	12-3-07	15:30	X			X						540 1.876 1013
East Xad	12-3-07	15:30	X			X						540 1.855 1002
West Anasorb	12-3-07	15:30	X			X						540 1.841 994
West Xad	12-3-07	15:30	X			X						540 2.744 1482
South Dipe Ana	12-3-07	15:30	X			X						540 1.073 579
South Dipe Xad	12-3-07	15:30	X			X						540 1.081 584

VOC's
PAH's
MERC
Fluor
Pb
Mn
Cd

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Other _____
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other _____

Turn Around Time Required _____

Sample Disposal
 Disposal By Lab Archive For _____ Months
 Return To Client (A fee may be assessed if samples are retained longer than 1 month)

OC Requirements (Specify) _____

1. Relinquished By: **David Demas** Date: **12-3-07** Time: **15:30** 1. Received By: **David Demas** Date: **12/4/07** Time: **0900**

2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples w/1-3 T.A.T. HOLD OTHER SAMPLES**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

207.40

R

Chain of Custody Record

7AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demics** Chain of Custody Number: **309994**
 Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (S. Hunt)** Lab Number: **12-4-07**
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: **J. Hunt** Page: **6** of **1**
 Project Name and Location (State): **Hammond Former MCP, IN** Carrier/Waybill Number: **4412758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/HNO3			
North Anasorb	12-4-07	15:30	X					X							540 2.059 1118
North Xad	12-4-07	15:30	X					X							540 2.328 1253
South Anasorb	12-4-07	15:30	X					X							540 1.198 647
South Xad	12-4-07	15:30	X					X							540 1.973 1065
East Anasorb	12-4-07	15:30	X					X							540 1.939 1047
East Xad	12-4-07	15:30	X					X							540 1.997 1078
West Anasorb	12-4-07	15:30	X					X							540 1.532 827
West Xad	12-4-07	15:30	X					X							540 2.702 1459
North Ana Dupe	12-4-07	15:30	X					X							540 1.097 592
North Xad Dupe	12-4-07	15:30	X					X							540 1.981 1070

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal: Return To Client Other: **See comments**

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days

1. Relinquished By: *[Signature]* Date: **12-4-07** Time: **15:30**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates priority W/-3 T.A.T. Hold others. 30°C**

Chain of Custody Record
7453

R

Client: Haley and Aldrich
Address: 4923 S. Hehman Ave
City: Hammond, IN 46373
Project Name and Location: HAMM, Indiana
Contract/Purchase Order/Quote No.: 12758-640

Project Manager: David Demas
Telephone Number: 317-603-4843 (J. Hunt)
Site Contact: J. Hunt
Carrier/Waybill Number: [Blank]

Date: 12-6-07
Chain of Custody Number: 3699993
Page: 1 of 1

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aq	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH			
North Anusorb	12-6-07	15:30	X			X									540 2.016 1084
North Xad	12-6-07	15:30	X			X									540 2.298 1241
South Anusorb	12-6-07	15:30	X			X									540 1.447 808
South Xad	12-6-07	15:30	X			X									540 2.009 1085
East Anusorb	12-6-07	15:30	X			X									540 1.942 1049
East Xad	12-6-07	15:30	X			X									540 2.064 1115
West Anusorb	12-6-07	15:30	X			X									540 1.575 851
West Xad	12-6-07	15:30	X			X									540 2.846 1537
Dupe North Anusorb	12-6-07	15:30	X			X									340 1.109 549
Dupe North Xad	12-6-07	15:30	X			X									540 1.986 1072

Analysis: V.C.S. PATHS, HOLD SAND, M's

Special Instructions: FLOX (U/MIND)

Sample Disposal: Disposal By Lab Return To Client Unknown Poison B Skin Irritant Flammable Non-Hazard

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: see comments

1. Relinquished By: [Signature] Date: 12-6-07 Time: 15:30
2. Relinquished By: [Signature] Date: 12-6-07 Time: 15:30
3. Relinquished By: [Signature] Date: 12-6-07 Time: 15:30

Comments: * Indicates priority samples w (-) 3 T.A.T. Hold other samples

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demco** Date: **12-7-07** Chain of Custody Number: **369655**
 Address: **4903 S. Hohman Ave.** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J, I, Hunt)** Lab Number: _____ Page: **1** of **1**
 City: **Hammond** State: **IN** Zip Code: **46333** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond Wetland Remediation** Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow rate (L/MIN) Total Flow (L)			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			HORN		
North Anasorb	12-7-07	15:30	X					X							540	2.005	1083
North Xad	12-7-07	15:30	X					X							540	2.260	1220
South Anasorb	12-7-07	15:30	X					X							540	2.043	1103
South Xad	12-7-07	15:30	X					X							540	1.997	1078
East Anasorb	12-7-07	15:30	X					X							540	1.536	829
East Xad	12-7-07	15:30	X					X							540	2.109	1139
West Anasorb	12-7-07	15:30	X					X							540	1.435	775
West Xad	12-7-07	15:30	X					X							540	2.831	1529
Dupe Anasorb South	12-7-07	15:30	X					X							540	1.057	571
Dupe Xad East	12-7-07	15:30	X					X							540	2.036	1099

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)
 Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days
 1. Relinquished By: *[Signature]* Date: **12-7-07** Time: **15:30** # Sec comments: **OC Requirements (Specify)**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: *[Signature]* Date: **12-8-07** Time: **09:20**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____
 Comments: *** Indicates priority samples w/ 1-3 T.A.T. Hoop OTHERS.**

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Domas** Date: **12-8-07** Chain of Custody Number: **369656**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J. Hunt)** Lab Number: _____ Page: **1** of **1**

City: **Hammont** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammont Vp Land Remediation** Carrier/Maybill Number: _____

Contract/Purchase Order/Quote No.: **12758-04b**

Sample I.D. No. and Description <small>(Containers for each sample may be combined on one line)</small>	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt Total Flow (L/MIN) Total Flow (G)				
			Air	Soil	Sed.	Sludge	Water	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc/NaOH			
North Anasorb	12-08-07	15:30	X												540	1.941	1048
North Xad	12-08-07	15:30	X												540	2.022	1200
South Anasorb	12-08-07	15:30	X												540	2.086	1126
South Xad	12-08-07	15:30	X												540	1.999	1079
East Anasorb	12-08-07	15:30	X												540	1.913	1033
East Xad	12-08-07	15:30	X												540	2.056	1170
West Anasorb	12-08-07	15:30	X												540	1.498	809
West Xad	12-08-07	15:30	X												540	2.843	1535
Dupe Anasorb South	12-08-07	15:30	X												540	1.209	653
Dupe Xad East	12-08-07	15:30	X												540	2.029	1096

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months _____ Months _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other See comments

Turn Around Time Required:
 Relinquished By: *[Signature]* Date: **12-08-07** Time: **15:30**
 Relinquished By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____

QC Requirements (Specify):
 1. Received By: **W Bell** Date: **12/10/07** Time: **0900**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/13 T.A.T. All others are N.O.C.D. 4:0**

Distribution: **WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy**

R

Chain of Custody Record

Client: **Haley and Aldrich** Date: **12-10-07** Chain of Custody Number: **3699553**
 Address: **4933 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843**
 City: **Hammond** State: **IN** Zip Code: **46333** Site Contact: **J. Hunt** Lab Contact: **David Demas** Page: **1** of **1**

Sample I.D. No. and Description <small>Containers for each sample may be combined on one line</small>	Date	Time	Matrix				Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Aq	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH	
North Anasorb	12-10-07	15:30	X			X								540 2.004 1082	Fluore L/MIN Fluore
North Xad	12-10-07	15:30	X			X								540 2.330 1258	
South Anasorb	12-10-07	15:30	X			X								540 1.541 832	
South Xad	12-10-07	15:30	X			X								540 2.011 1086	
East Anasorb	12-10-07	15:30	X			X								540 1.904 1038	
East Xad	12-10-07	15:30	X			X								540 1.946 1078	
West Anasorb	12-10-07	15:30	X			X								540 1.398 755	
West Xad	12-10-07	15:30	X			X								540 2.776 1499	
Xad dupe East	12-10-07	15:30	X			X								540 2.084 1125	
Anasorb dupe South	12-10-07	15:30	X			X								540 1.160 594	

Sample Disposal: Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See comments**

Relinquished By: *[Signature]* Date: **12-10-07** Time: **15:30**

Relinquished By: *[Signature]* Date: **12/11/07** Time: **0515**

Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample w/ 3 T.A.T. Hold other samples. 2-0-**

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **12-12-07** Chain of Custody Number: **369660**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (T. Hunt)** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46333** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond Upland Remediation**

Contract/Purchase Order/Quote No.: **12758-040**

Carrier/Waybill Number: _____

Sample I.D. No. and Description Containers for each sample may be combined on one line)	Date	Matrix			Containers & Preservatives							Time	Special Instructions/ Conditions of Receipt		
		Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH				
North Anasorb	* 12-12-07	X			X										Total Mins Flow Total
North Xad	* 12-12-07	X			X										
South Anasorb	12-12-07	X			X										1337
South Xad	12-12-07	X			X										
East Anasorb	12-12-07	X			X										978
East Xad	12-12-07	X			X										
West Anasorb	12-12-07	X			X										869
West Xad	12-12-07	X			X										
Dupe Anasorb East	12-12-07	X			X										563
Dupe Xad South	12-12-07	X			X										

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other

1. Relinquished By: *[Signature]* Date: **12-12-07** Time: _____

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Received By: *[Signature]* Date: **12/13/07** Time: **0845**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples w/1-3 T.A.T. Hold other samples, 2.0.c**

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **12-14-07** Chain of Custody Number: **369958**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Page: _____ of _____

Project Name and Location (State): **Hammond Upland Remed** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Special Instructions/ Conditions of Receipt Total Flow Rate L/MIN Total Flow		
			Aq	Sed	Soil	Unpres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH						
North Anasorb	12-14-07	15:30	X					X							540	2.188	1182
North Kad	12-14-07		X					X							540	2.381	1286
South Anasorb	12-14-07		X					X							540	2.303	1244
South Kad	12-14-07		X					X							540	1.977	1068
East Anasorb			X					X							540	1.934	1044
East Kad			X					X							540	1.892	1022
West Anasorb			X					X							540	1.650	891
West Kad			X					X							540	2.839	1533
Dupe Anasorb South			X					X							540	1.036	559
Dupe Kad North			X					X							540	2.776	1499

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Archive For _____ Months Disposal By Lab (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal: Return To Client Archive For _____ Months Disposal By Lab (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments**

1. Relinquished By: *[Signature]* Date: **12-14-07** Time: **15:30**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: *[Signature]* Date: **12-15-07** Time: **09:15**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w/ -3 T.A.T. Hold others.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Chain of Custody Record

AL-4142 (0907)

Client: Haley and Aldrich		Project Manager: David Demas		Date: 12-17-07		Chain of Custody Number: 369954	
Address: 4923 S Hohman Ave		Telephone Number (Area Code)/Fax Number: 317-603-4813 (S. Hunt)		Lab Number:		Page: 1 of 1	
City: Hammond		State: IN		Zip Code: 46323		Analysis (Attach list if more space is needed):	
Project Name and Location (State): Hammond Upland Kennel, IN		Site Contact: J. Hent		Lab Contact:		Special Instructions/Conditions of Receipt:	
Contract/Purchase Order/Quote No.: 10358-040		Carrier/Waybill Number:		Containers & Preservatives:		Flow MIN Total	

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix	Containers & Preservatives	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	HNOH	Special Instructions/Conditions of Receipt
North Anosorb	12-17-07	15:30	X		X							540 2.039 1101
North Xad			X		X							540 2.526 1364
South Anosorb			X		X							540 2.198 1187
South Xad			X		X							540 1.989 1074
East Anosorb *			X		X							540 1.792 968
East Xad *			X		X							540 1.882 1616
West Anosorb			X		X							540 1.311 708
West Xad			X		X							540 2.744 1482
Dupe Ann south *			X		X							540 1.110 559
Dupe Xad East *			X		X							540 2.772 1497

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For Months: _____ (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments**

1. Relinquished By: *[Signature]* Date: **12-17-07** Time: **15:30** Received By: **Bell** Date: **12/19/07** Time: **0940**

2. Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority sample W-3 T.A.T. All others hold.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy **20300c**



Chain of Custody Record

AL-4142 (0907)

Client: Haley and Aldrich Project Manager: David Demas Date: 12-18-07 Chain of Custody Number: 388612

Address: 4923 S. Hohmar Ave Telephone Number (Area Code)/Fax Number: 317-603-4843 Lab Number: _____

City: Hammond State: IN Zip Code: 46323 Site Contact: J. Hunt Lab Contact: _____ Page: 1 of 1

Project Name and Location (State): Hammond Inland Remediation

Contract/Purchase Order/Quote No.: 12758-040

Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt					
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	VOC's	PAH's			NO-D	Ni's			
North Anasorb	12-18-07	15:30	X																		
North Xad	12-18-07	15:30	X																		
South Anasorb	12-18-07	15:30	X																		
South Xad	12-18-07	15:30	X																		
West Anasorb	12-18-07	15:30	X																		
West Xad	12-18-07	15:30	X																		
East Anasorb	12-18-07	15:30	X																		
East Xad	12-18-07	15:30	X																		
Dupe Anasorb South	12-18-07	15:30	X																		
Dupe Xad East	12-18-07	15:30	X																		

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comments

1. Relinquished By: [Signature] Date: 12-18-07 Time: 15:30
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Bee Date: 12/19/07 Time: 0930
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: * Indicates priority samples w 1-3 T.A.T. HOLD OTHERS.

Distribution: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2.0°C



Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Date: **12-19-07** Chain of Custody Number: **369658**

Address: **4923 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4813 (J. Hunt)**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: **J. Hunt** Page: **1** of **1**

Project Name and Location (State): **Hammond Former MGP, IN** Carrier/Maybill Number: _____

Sample I.D. No. and Description <small>Containers for each sample may be combined on one line)</small>	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow Total Flow (L) MIN	
			Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	H2O2			
North Anasorb	12-19-07	15:30	X			X	X								540 1.884 1017
North Xad			X			X	X								540 2.393 1292
South Anasorb *			X			X	X								540 2.187 1181
South Xad			X			X	X								540 2.020 1091
East Anasorb			X			X	X								540 1.869 1009
East Xad			X			X	X								540 2.029 1096
West Anasorb			X			X	X								540 1.530 826
West Xad			X			X	X								540 2.827 1527
East Dupe Anasorb			X			X	X								540 1.007 544
South Dupe Xad			X			X	X								540 2.1503 1352

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months
 Turn Around Time Required 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See Comments**

QC Requirements (Specify): _____

1. Received By: **Beel** Date: **12-19-07** Time: **15:30**

2. Received By: **JAC** Date: **12/20/07** Time: **0940**

3. Received By: **BUFFALO** Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Se Indicates priority sample w 1-3 T.A.T. All others are normal. IIRER**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

2-02

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **12-20-07** Chain of Custody Number: **369663**

Address: **4923 S. Hohmar Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843 (J. Hunt)** Lab Number: _____ Page _____ of _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond Upland** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: **13758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH				
North Anasorb	12-20-07	14:30	X					X								X VOC's	Miss Flange Total 510
North Xad			X					X									
South Anasorb			X					X									
South Xad			X					X									
West Anasorb			X					X									
West Xad			X					X									
East Anasorb			X					X									
East Xad			X					X									
Dupe Anasorb West			X					X									
Dupe Xad South			X					X									

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **see comments**

1. Relinquished By: *[Signature]* Date: **12-20-07** Time: **15:30** Received By: *[Signature]* Date: **12/21/07** Time: **05:30**

2. Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____ Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples w/ 3 T.A.J. Hold other samples 2.0-c**

ANALYTICAL REPORT

Job#: A08-8510, A08-8511, A08-8681, A08-8683, A08-8684, A08-8685,
A08-8746, A08-8747, A08-8843, A08-8845, A08-8897, A08-8899

Project#: NY3A9043

SDG#: A88510

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

David Demas
H&A
12220 N Meridian St., Ste 165
Carmel, IN 46032

TestAmerica Laboratories Inc.

Candace L. Fox

Candace L. Fox
Project Manager

08/27/2008

RECEIVED

SEP 03 2008

HALEY AND ALDRICH



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/GS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8851001	EAST ANASORB	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868101	EAST ANASORB	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868502	EAST ANASORB	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874703	EAST ANASORB	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884502	EAST ANASORB	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889901	EAST ANASORB	AIR	07/23/2008	16:00	07/24/2008	09:00
A8851103	EAST XAD	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868303	EAST XAD	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868503	EAST XAD	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874601	EAST XAD	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884503	EAST XAD	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889902	EAST XAD	AIR	07/23/2008	16:00	07/24/2008	09:00
A8851101	NORTH ANASORB	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868301	NORTH ANASORB	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868401	NORTH ANASORB	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874701	NORTH ANASORB	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884301	NORTH ANASORB	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889701	NORTH ANASORB	AIR	07/23/2008	16:00	07/24/2008	09:00
A8851102	NORTH XAD	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868302	NORTH XAD	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868501	NORTH XAD	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874702	NORTH XAD	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884501	NORTH XAD	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889702	NORTH XAD	AIR	07/23/2008	16:00	07/24/2008	09:00
A8851106	SOUTH ANASORB	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868306	SOUTH ANASORB	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868506	SOUTH ANASORB	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874706	SOUTH ANASORB	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884504	SOUTH ANASORB	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889905	SOUTH ANASORB	AIR	07/23/2008	16:00	07/24/2008	09:00
A8851002	SOUTH XAD	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868102	SOUTH XAD	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868402	SOUTH XAD	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874707	SOUTH XAD	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884302	SOUTH XAD	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889906	SOUTH XAD	AIR	07/23/2008	16:00	07/24/2008	09:00
A8884303	SOUTH XAD DUP	AIR	07/22/2008	16:00	07/23/2008	09:20
A8851104	WEST ANASORB	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868304	WEST ANASORB	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868504	WEST ANASORB	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874704	WEST ANASORB	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884505	WEST ANASORB	AIR	07/22/2008	16:00	07/23/2008	09:20

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8889903	WEST ANASORB	AIR	07/23/2008	16:00	07/24/2008	09:00
A8851105	WEST XAD	AIR	07/15/2008	16:00	07/16/2008	09:20
A8868305	WEST XAD	AIR	07/16/2008	16:00	07/18/2008	09:15
A8868505	WEST XAD	AIR	07/17/2008	16:00	07/18/2008	09:15
A8874705	WEST XAD	AIR	07/18/2008	16:00	07/21/2008	08:45
A8884506	WEST XAD	AIR	07/22/2008	16:00	07/23/2008	09:20
A8889904	WEST XAD	AIR	07/23/2008	16:00	07/24/2008	09:00

METHODS SUMMARY

Job#: A08-8510, A08-8511, A08-8681, A08-8683, A08-8684, A08-8685,
A08-8746, A08-8747, A08-8843, A08-8845, A08-8897, A08-8899

Project#: NY3A9043
SDG#: A88510
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL</u>
	<u>METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A08-8510, A08-8511, A08-8681, A08-8683, A08-8684, A08-8685,
A08-8746, A08-8747, A08-8843, A08-8845, A08-8897, A08-8899

Project#: NY3A9043
SDG#: A88510
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-8510

Sample Cooler(s) were received at the following temperature(s); 5.4 °C
All samples were received in good condition.

A08-8511

Sample Cooler(s) were received at the following temperature(s); 5.4 °C
All samples were received in good condition.

A08-8681

Sample Cooler(s) were received at the following temperature(s); 4.5 °C
All samples were received in good condition.

A08-8683

Sample Cooler(s) were received at the following temperature(s); 4.5 °C
All samples were received in good condition.

A08-8684

Sample Cooler(s) were received at the following temperature(s); 4.5 °C
All samples were received in good condition.

A08-8685

Sample Cooler(s) were received at the following temperature(s); 4.5 °C
All samples were received in good condition.

A08-8746

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
All samples were received in good condition.

A08-8747

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
All samples were received in good condition.

A08-8843

Sample Cooler(s) were received at the following temperature(s); 4.2 °C
All samples were received in good condition.

A08-8845

Sample Cooler(s) were received at the following temperature(s); 4.2 °C
All samples were received in good condition.

A08-8897

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-8899

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

GC Volatile Data

For method 5515, the continuing calibration verifications are elevated and above 15% difference for several compounds, the associated samples do not show any detections above the CRQL for these compounds, the data is not effected.

For NIOSH method 1501, sample EAST ANASORB (7/16/08) was missing the end cap and results may be biased low.

For NIOSH method 1501, sample WEST ANASORB (7/16/08) was missing the end cap and results may be biased low.

For NIOSH method 1501, samples EAST ANASORB, WEST ANASORB, and SOUTH ANASORB (7/17/08) are missing the end caps and results may be biased low.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 07/31/2008
Time: 15:32:25

Dilution Log w/Code Information
For Project NY3A9043, SDG A88510

8/47 Page: 1
Rept: AN1266R

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
EAST ANASORB	A8851001	1501	2.00	013
NORTH ANASORB	A8851101	1501	2.00	013
WEST ANASORB	A8851104	1501	2.00	013
SOUTH ANASORB	A8851106	1501	2.00	013
EAST ANASORB	A8868101	1501	2.00	013
NORTH ANASORB	A8868301	1501	2.00	013
WEST ANASORB	A8868304	1501	2.00	013
SOUTH ANASORB	A8868306	1501	2.00	013
NORTH ANASORB	A8868401	1501	2.00	013
EAST ANASORB	A8868502	1501	2.00	013
WEST ANASORB	A8868504	1501	2.00	013
SOUTH ANASORB	A8868506	1501	2.00	013
NORTH ANASORB	A8874701	1501	2.00	013
EAST ANASORB	A8874703	1501	2.00	013
WEST ANASORB	A8874704	1501	2.00	013
SOUTH ANASORB	A8874706	1501	2.00	013
NORTH ANASORB	A8884301	1501	2.00	013
EAST ANASORB	A8884502	1501	2.00	013
SOUTH ANASORB	A8884504	1501	2.00	013
WEST ANASORB	A8884505	1501	2.00	013
NORTH ANASORB	A8889701	1501	2.00	013
EAST ANASORB	A8889901	1501	2.00	013
WEST ANASORB	A8889903	1501	2.00	013
SOUTH ANASORB	A8889905	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 07/31/2008
Time: 15:32:38

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-8510 07/15/2008		EAST ANASORB A08-8681 07/16/2008		EAST ANASORB A08-8685 07/17/2008		EAST ANASORB A08-8747 07/18/2008	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	3.5	ND	3.7	ND	3.4	ND	8.0
Ethylbenzene		ND	3.5	ND	3.7	ND	3.4	ND	8.0
m/p-Xylenes		ND	3.5	ND	3.7	ND	3.4	ND	8.0
o-Xylene		ND	3.5	ND	3.7	ND	3.4	ND	8.0
Toluene		ND	3.5	ND	3.7	ND	3.4	ND	8.0

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-8845 07/22/2008		EAST ANASORB A08-8899 07/23/2008		NORTH ANASORB A08-8511 07/15/2008		NORTH ANASORB A08-8683 07/16/2008	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	3.7	ND	3.5	ND	3.6	ND	3.6
Ethylbenzene		ND	3.7	ND	3.5	ND	3.6	ND	3.6
m/p-Xylenes		ND	3.7	ND	3.5	ND	3.6	ND	3.6
o-Xylene		ND	3.7	ND	3.5	ND	3.6	ND	3.6
Toluene		ND	3.7	ND	3.5	ND	3.6	ND	3.6

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-8684 07/17/2008		NORTH ANASORB A08-8747 07/18/2008		NORTH ANASORB A08-8843 07/22/2008		NORTH ANASORB A08-8897 07/23/2008	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	3.2	ND	8.0	ND	3.3	ND	3.3
Ethylbenzene		ND	3.2	ND	8.0	ND	3.3	ND	3.3
m/p-Xylenes		ND	3.2	ND	8.0	ND	3.3	ND	3.3
o-Xylene		ND	3.2	ND	8.0	ND	3.3	ND	3.3
Toluene		ND	3.2	ND	8.0	ND	3.3	ND	3.3

10/47

Date: 07/31/2008
Time: 15:32:38

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-8511 07/15/2008	A8851106	SOUTH ANASORB A08-8683 07/16/2008	A8868306	SOUTH ANASORB A08-8685 07/17/2008	A8868506	SOUTH ANASORB A08-8747 07/18/2008	A8874706
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.2	ND	3.7	ND	3.6	ND	8.0
Ethylbenzene	UG/M3	ND	3.2	ND	3.7	ND	3.6	ND	8.0
m/p-Xylenes	UG/M3	ND	3.2	ND	3.7	ND	3.6	ND	8.0
o-Xylene	UG/M3	ND	3.2	ND	3.7	ND	3.6	ND	8.0
Toluene	UG/M3	ND	3.2	ND	3.7	ND	3.6	ND	8.0

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-8845 07/22/2008	A8884504	SOUTH ANASORB A08-8899 07/23/2008	A8889905	WEST ANASORB A08-8511 07/15/2008	A8851104	WEST ANASORB A08-8683 07/16/2008	A8868304
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.6	ND	3.0	ND	3.0	ND	3.5
Ethylbenzene	UG/M3	ND	3.6	ND	3.0	ND	3.0	ND	3.5
m/p-Xylenes	UG/M3	ND	3.6	ND	3.0	ND	3.0	ND	3.5
o-Xylene	UG/M3	ND	3.6	ND	3.0	ND	3.0	ND	3.5
Toluene	UG/M3	ND	3.6	ND	3.0	ND	3.0	ND	3.5

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-8685 07/17/2008	A8868504	WEST ANASORB A08-8747 07/18/2008	A8874704	WEST ANASORB A08-8845 07/22/2008	A8884505	WEST ANASORB A08-8899 07/23/2008	A8889903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.4	ND	8.0	ND	3.6	ND	3.3
Ethylbenzene	UG/M3	ND	3.4	ND	8.0	ND	3.6	ND	3.3
m/p-Xylenes	UG/M3	ND	3.4	ND	8.0	ND	3.6	ND	3.3
o-Xylene	UG/M3	ND	3.4	ND	8.0	ND	3.6	ND	3.3
Toluene	UG/M3	ND	3.4	ND	8.0	ND	3.6	ND	3.3

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Client ID Job No Sample Date	Lab ID	Analyte	Units	EAST XAD A08-8511 07/15/2008	A8851103	EAST XAD A08-8683 07/16/2008	A8868303	EAST XAD A08-8685 07/17/2008	A8868503	EAST XAD A08-8746 07/18/2008	A8874601
				Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Acenaphthylene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Anthracene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Benzo(a)anthracene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Benzo(a)pyrene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Benzo(b)fluoranthene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Benzo(ghi)perylene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Benzo(k)fluoranthene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Chrysene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Dibenzo(a,h)anthracene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Fluoranthene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Fluorene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Naphthalene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Phenanthrene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0
Pyrene	UG/M3			ND	4.5	ND	4.4	ND	4.4	ND	5.0

Client ID Job No Sample Date	Lab ID	Analyte	Units	EAST XAD A08-8845 07/22/2008	A8884503	EAST XAD A08-8899 07/23/2008	A8889902	NORTH XAD A08-8511 07/15/2008	A8851102	NORTH XAD A08-8683 07/16/2008	A8868302
				Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Acenaphthylene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Anthracene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Benzo(a)anthracene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Benzo(a)pyrene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Benzo(b)fluoranthene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Benzo(ghi)perylene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Benzo(k)fluoranthene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Chrysene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Dibenzo(a,h)anthracene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Fluoranthene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Fluorene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Indeno(1,2,3-cd)pyrene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Naphthalene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Phenanthrene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4
Pyrene	UG/M3			ND	4.6	ND	4.3	ND	4.5	ND	4.4

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Client ID Job No Sample Date	Lab ID	NORTH XAD A08-8685 07/17/2008	A8868501	NORTH XAD A08-8747 07/18/2008	A8874702	NORTH XAD A08-8845 07/22/2008	A8884501	NORTH XAD A08-8897 07/23/2008	A8889702
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Acenaphthylene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Anthracene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Benzo(a)anthracene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Benzo(a)pyrene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Benzo(b)fluoranthene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Benzo(ghi)perylene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Benzo(k)fluoranthene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Chrysene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Dibenzo(a,h)anthracene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Fluoranthene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Fluorene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Naphthalene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Phenanthrene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2
Pyrene	UG/M3	ND	4.3	ND	5.0	ND	4.5	ND	4.2

Client ID Job No Sample Date	Lab ID	SOUTH XAD A08-8570 07/15/2008	A8851002	SOUTH XAD A08-8681 07/16/2008	A8868102	SOUTH XAD A08-8684 07/17/2008	A8868402	SOUTH XAD A08-8747 07/18/2008	A8874707
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Acenaphthylene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Anthracene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Benzo(a)anthracene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Benzo(a)pyrene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Chrysene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Fluoranthene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Fluorene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Naphthalene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Phenanthrene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0
Pyrene	UG/M3	ND	3.5	ND	4.6	ND	4.6	ND	5.0

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Client ID Job No Sample Date	Lab ID	SOUTH XAD A08-8843 07/22/2008	A8884302	SOUTH XAD A08-8899 07/23/2008	A8889906	SOUTH XAD DUP A08-8843 07/22/2008	A8884303	WEST XAD A08-8511 07/15/2008	A8851105
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Acenaphthylene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Anthracene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Benzo(a)anthracene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Benzo(b)fluoranthene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Benzo(ghi)perylene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Benzo(k)fluoranthene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Chrysene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Dibenzo(a,h)anthracene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Fluoranthene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Fluorene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Naphthalene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Phenanthrene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6
Pyrene	UG/M3	ND	4.4	ND	4.6	ND	4.4	ND	4.6

Client ID Job No Sample Date	Lab ID	WEST XAD A08-8683 07/16/2008	A8868305	WEST XAD A08-8685 07/17/2008	A8868505	WEST XAD A08-8747 07/18/2008	A8874705	WEST XAD A08-8845 07/22/2008	A8884506
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Acenaphthylene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Anthracene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Benzo(a)anthracene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Benzo(a)pyrene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Benzo(b)fluoranthene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Benzo(ghi)perylene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Benzo(k)fluoranthene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Chrysene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Dibenzo(a,h)anthracene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Fluoranthene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Fluorene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Naphthalene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Phenanthrene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3
Pyrene	UG/M3	ND	4.3	ND	4.0	ND	5.0	ND	4.3

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Client ID	Lab ID	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Job No	A08-8899			A8889904				
Sample Date	07/23/2008							
Analyte								
Acenaphthene		UG/M3	ND	3.6	NA		NA	
Acenaphthylene		UG/M3	ND	3.6	NA		NA	
Anthracene		UG/M3	ND	3.6	NA		NA	
Benzo(a)anthracene		UG/M3	ND	3.6	NA		NA	
Benzo(a)pyrene		UG/M3	ND	3.6	NA		NA	
Benzo(b)fluoranthene		UG/M3	ND	3.6	NA		NA	
Benzo(ghi)perylene		UG/M3	ND	3.6	NA		NA	
Benzo(k)fluoranthene		UG/M3	ND	3.6	NA		NA	
Chrysene		UG/M3	ND	3.6	NA		NA	
Dibenzo(a,h)anthracene		UG/M3	ND	3.6	NA		NA	
Fluoranthene		UG/M3	ND	3.6	NA		NA	
Fluorene		UG/M3	ND	3.6	NA		NA	
Indeno(1,2,3-cd)pyrene		UG/M3	ND	3.6	NA		NA	
Naphthalene		UG/M3	ND	3.6	NA		NA	
Phenanthrene		UG/M3	ND	3.6	NA		NA	
Pyrene		UG/M3	ND	3.6	NA		NA	

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Client ID Job No Sample Date	Lab ID	Method Blank A08-8684		Method Blank A08-8747		Method Blank A08-8897		Method Blank A881962003	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		UG/M3	4.0	ND	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0

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Client ID Job No Sample Date	Lab ID	Method Blank A08-8510	A8B1893603	Method Blank A08-8747	A8B1918003	Method Blank A08-8897	A8B1945903	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Acenaphthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Chrysene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Fluorene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Naphthalene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Phenanthrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA
Pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	5.0	NA	5.0	NA

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-8510 A8B1908301		Matrix Spike Blank A08-8747 A8B1945601		Matrix Spike Blank A08-8897 A8B1962001		Matrix Spike Blk Dup A08-8511 A8B1908302	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		19	4.0	18	4.0	18	4.0	19	4.0
Ethylbenzene		20	4.0	18	4.0	19	4.0	20	4.0
m/p-Xylenes		40	4.0	36	4.0	38	4.0	39	4.0
o-Xylene		20	4.0	18	4.0	19	4.0	19	4.0
Toluene		20	4.0	18	4.0	19	4.0	20	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-8845 A8B1945602		Matrix Spike Blk Dup A08-8899 A8B1962002		Matrix Spike Blk Dup A08-8511 A8B1908302	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		18	4.0	17	4.0	NA	NA
Ethylbenzene		19	4.0	16	4.0	NA	NA
m/p-Xylenes		38	4.0	32	4.0	NA	NA
o-Xylene		19	4.0	16	4.0	NA	NA
Toluene		19	4.0	17	4.0	NA	NA

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-8510 A8B1893601	Matrix Spike Blank A08-8746 A8B1918001	Matrix Spike Blank A08-8897 A8B1945901	Matrix Spike Blk Dup A08-8511 A8B1893602
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	10	5.0	9.9	5.0
Acenaphthylene	UG/M3	10	5.0	9.9	5.0
Anthracene	UG/M3	10	5.0	9.9	5.0
Benzo(a)anthracene	UG/M3	9.4	5.0	9.6	5.0
Benzo(a)pyrene	UG/M3	9.3	5.0	8.6	5.0
Benzo(b)fluoranthene	UG/M3	9.4	5.0	8.7	5.0
Benzo(ghi)perylene	UG/M3	9.4	5.0	8.9	5.0
Benzo(k)fluoranthene	UG/M3	9.3	5.0	8.7	5.0
Chrysene	UG/M3	10	5.0	9.1	5.0
Dibenzofluoranthene	UG/M3	8.8	5.0	8.5	5.0
Fluoranthene	UG/M3	9.9	5.0	9.6	5.0
Fluorene	UG/M3	10	5.0	10	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	9.3	5.0	8.6	5.0
Naphthalene	UG/M3	10	5.0	9.5	5.0
Phenanthrene	UG/M3	10	5.0	10	5.0
Pyrene	UG/M3	9.7	5.0	9.6	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-8747 A8B1918002	Matrix Spike Blk Dup A08-8843 A8B1945902	Matrix Spike Blk Dup A08-8511 A8B1893602
Analyte	Units	Sample Value	Reporting Limit	Sample Value
Acenaphthene	UG/M3	8.3	5.0	NA
Acenaphthylene	UG/M3	8.3	5.0	NA
Anthracene	UG/M3	8.5	5.0	NA
Benzo(a)anthracene	UG/M3	7.9	5.0	NA
Benzo(a)pyrene	UG/M3	7.6	5.0	NA
Benzo(b)fluoranthene	UG/M3	7.6	5.0	NA
Benzo(ghi)perylene	UG/M3	7.6	5.0	NA
Benzo(k)fluoranthene	UG/M3	7.6	5.0	NA
Chrysene	UG/M3	7.9	5.0	NA
Dibenzofluoranthene	UG/M3	7.4	5.0	NA
Fluoranthene	UG/M3	8.3	5.0	NA
Fluorene	UG/M3	8.5	5.0	NA
Indeno(1,2,3-cd)pyrene	UG/M3	7.4	5.0	NA
Naphthalene	UG/M3	7.7	5.0	NA
Phenanthrene	UG/M3	8.5	5.0	NA
Pyrene	UG/M3	8.4	5.0	NA

SD6: A88510

Client Sample ID: Method Blank
Lab Sample ID: A8B1893603

Matrix Spike Blank
A8B1893601

Matrix Spike Blk Dup
A8B1893602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		% RPD	QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		RPD	REC.	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.75	9.05	10.0	10.0	88	90	2	30.0	49-141	
Benzo(a)anthracene	UG/M3	9.39	9.64	10.0	10.0	94	96	2	30.0	59-136	
Anthracene	UG/M3	10.1	10.2	10.0	10.0	101	102	1	30.0	60-134	
Acenaphthene	UG/M3	10.3	10.4	10.0	10.0	103	104	1	30.0	63-134	
Naphthalene	UG/M3	10.2	10.3	10.0	10.0	102	103	1	30.0	63-134	
Chrysene	UG/M3	10.2	10.4	10.0	10.0	102	104	2	30.0	59-137	
Benzo(a)pyrene	UG/M3	9.31	9.63	10.0	10.0	93	96	3	30.0	58-140	
Pyrene	UG/M3	9.71	9.90	10.0	10.0	97	99	2	30.0	64-133	
Acenaphthylene	UG/M3	10.4	10.3	10.0	10.0	104	104	0	30.0	62-135	
Indeno(1,2,3-cd)pyrene	UG/M3	9.31	9.56	10.0	10.0	93	96	3	30.0	47-140	
Benzo(b)fluoranthene	UG/M3	9.38	9.73	10.0	10.0	94	97	3	30.0	60-138	
Benzo(k)fluoranthene	UG/M3	9.26	9.59	10.0	10.0	93	96	3	30.0	45-137	
Phenanthrene	UG/M3	10.1	10.2	10.0	10.0	102	102	0	30.0	63-133	
Fluorene	UG/M3	10.3	10.4	10.0	10.0	104	105	1	30.0	64-134	
Fluoranthene	UG/M3	9.89	9.93	10.0	10.0	99	99	0	30.0	63-132	
Benzo(ghi)perylene	UG/M3	9.42	9.74	10.0	10.0	94	97	3	30.0	59-139	

SDG: A88510

Client Sample ID: Method Blank
Lab Sample ID: A881908303

Matrix Spike Blank
A881908301

Matrix Spike Blk Dup
A881908302

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	19.2	18.9	20.0	20.0	96	95	96	1	30.0	61-131
Toluene	UG/M3	20.2	19.9	20.0	20.0	101	100	101	1	30.0	64-137
Ethylbenzene	UG/M3	20.4	19.9	20.0	20.0	102	100	101	2	30.0	66-147
m/p-Xylenes	UG/M3	40.4	39.4	40.0	40.0	101	98	100	3	30.0	65-141
o-Xylene	UG/M3	20.0	19.4	20.0	20.0	100	97	99	3	30.0	64-139

SDG: A88510

Client Sample ID: Method Blank
Lab Sample ID: A8B1918003

Matrix Spike Blank
A8B1918001

Matrix Spike Blk Dup
A8B1918002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenz(a,h)anthracene	UG/M3	8.02	7.39	10.0	10.0	80	74	77	8	30.0	49-141
Benzo(a)anthracene	UG/M3	8.49	7.90	10.0	10.0	85	79	82	7	30.0	59-136
Anthracene	UG/M3	9.04	8.48	10.0	10.0	90	85	88	6	30.0	60-134
Acenaphthene	UG/M3	8.77	8.26	10.0	10.0	88	83	86	6	30.0	63-134
Naphthalene	UG/M3	8.57	7.68	10.0	10.0	86	77	82	11	30.0	63-134
Chrysene	UG/M3	8.54	7.93	10.0	10.0	85	79	82	7	30.0	59-137
Benzo(a)pyrene	UG/M3	8.18	7.61	10.0	10.0	82	76	79	8	30.0	58-140
Pyrene	UG/M3	8.91	8.36	10.0	10.0	89	84	87	6	30.0	64-133
Acenaphthylene	UG/M3	8.80	8.28	10.0	10.0	88	83	86	6	30.0	62-135
Indeno(1,2,3-cd)pyrene	UG/M3	8.07	7.43	10.0	10.0	81	74	78	9	30.0	47-140
Benzo(b)fluoranthene	UG/M3	8.20	7.63	10.0	10.0	82	76	79	8	30.0	60-138
Benzo(k)fluoranthene	UG/M3	8.10	7.56	10.0	10.0	81	76	79	6	30.0	45-137
Phenanthrene	UG/M3	9.01	8.50	10.0	10.0	90	85	88	6	30.0	63-133
Fluorene	UG/M3	8.98	8.46	10.0	10.0	90	85	88	6	30.0	64-134
Fluoranthene	UG/M3	8.83	8.31	10.0	10.0	88	83	86	6	30.0	63-132
Benzo(ghi)perylene	UG/M3	8.23	7.62	10.0	10.0	82	76	79	8	30.0	59-139

SDG: A88510

Client Sample ID: Method Blank
Lab Sample ID: A8B1945603

Matrix Spike Blank
A8B1945601

Matrix Spike Blk Dup
A8B1945602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD	REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG		
NIOSH METHOD 1501 AROMATIC HYDROCARBONS										
Benzene	UG/M3	17.7	18.4	20.0	20.0	89	92	91	30.0	63-119
Toluene	UG/M3	18.3	19.1	20.0	20.0	92	96	94	30.0	70-126
Ethylbenzene	UG/M3	18.2	19.1	20.0	20.0	91	96	94	30.0	72-129
m/p-Xylenes	UG/M3	36.1	37.9	40.0	40.0	90	95	93	30.0	72-128
o-Xylene	UG/M3	17.8	18.7	20.0	20.0	89	94	92	30.0	71-126

SDG: A88510
 Client Sample ID: Method Blank Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A8B1945903 A8B1945901 A8B1945902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.48	8.30	10.0	10.0	85	83	84	2	30.0	34-123
Benzo(a)anthracene	UG/M3	9.01	8.88	10.0	10.0	90	89	90	1	30.0	54-118
Anthracene	UG/M3	9.93	9.80	10.0	10.0	99	98	99	1	30.0	61-119
Acenaphthene	UG/M3	9.90	9.67	10.0	10.0	99	97	98	2	30.0	56-122
Naphthalene	UG/M3	9.49	8.98	10.0	10.0	95	90	93	5	30.0	56-121
Chrysene	UG/M3	9.08	8.91	10.0	10.0	91	89	90	2	30.0	52-119
Benzo(a)pyrene	UG/M3	8.64	8.44	10.0	10.0	86	84	85	2	30.0	45-120
Pyrene	UG/M3	9.65	9.56	10.0	10.0	96	96	96	0	30.0	55-120
Acenaphthylene	UG/M3	9.93	9.74	10.0	10.0	99	97	98	2	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	8.61	8.37	10.0	10.0	86	84	85	2	30.0	34-118
Benzo(b)fluoranthene	UG/M3	8.72	8.41	10.0	10.0	87	84	86	4	30.0	46-116
Benzo(k)fluoranthene	UG/M3	8.67	8.48	10.0	10.0	87	85	86	2	30.0	49-115
Phenanthrene	UG/M3	9.98	9.76	10.0	10.0	100	98	99	2	30.0	60-120
Fluorene	UG/M3	9.99	9.78	10.0	10.0	100	98	99	2	30.0	59-121
Fluoranthene	UG/M3	9.58	9.54	10.0	10.0	96	95	96	1	30.0	55-119
Benzo(ghi)perylene	UG/M3	8.91	9.05	10.0	10.0	89	90	90	1	30.0	29-123

SD6: A88510

Client Sample ID: Method Blank
Lab Sample ID: A8B1962003

Matrix Spike Blank
A8B1962001

Matrix Spike Blk Dup
A8B1962002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	18.5	16.7	20.0	20.0	93	84	89	30.0 63-119
Toluene	UG/M3	19.3	16.6	20.0	20.0	97	83	90	30.0 70-126
Ethylbenzene	UG/M3	19.2	16.3	20.0	20.0	96	82	89	30.0 72-129
m/p-Xylenes	UG/M3	38.0	32.1	40.0	40.0	95	80	88	30.0 72-128
o-Xylene	UG/M3	18.7	15.8	20.0	20.0	94	79	87	30.0 71-126

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-8510 A8851001	EAST ANASORB A08-8681 A8868101	EAST ANASORB A08-8685 A8868502	EAST ANASORB A08-8747 A8874703	EAST ANASORB A08-8845 A8884502
Sample Date	07/15/2008 16:00	07/16/2008 16:00	07/17/2008 16:00	07/18/2008 16:00	07/22/2008 16:00
Extraction Date	07/16/2008 09:20	07/18/2008 09:15	07/18/2008 09:15	07/21/2008 08:45	07/23/2008 09:20
Analysis Date	07/18/2008 15:13	07/18/2008 18:32	07/18/2008 20:11	07/24/2008 12:21	07/24/2008 13:21
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	2.0	2.0
Sample wt/vol	1.13 LITERS	1.088 LITERS	1.164 LITERS	0.5 LITERS	1.09 LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID	EAST ANASORB	EAST XAD	EAST XAD	EAST XAD	EAST XAD
Job No & Lab Sample ID	A08-8899 A8889901	A08-8511 A8851103	A08-8683 A8868303	A08-8685 A8868503	A08-8746 A8874601
Sample Date	07/23/2008 16:00	NA	NA	NA	NA
Received Date	07/24/2008 09:00				
Extraction Date	07/28/2008 10:58				
Analysis Date	-				
Extraction HT Met?	YES				
Analytical HT Met?	AIR				
Sample Matrix	2.0				
Dilution Factor	1.127 LITERS				
Sample wt/vol					
% Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID	EAST ANASORB	EAST XAD	EAST XAD	EAST XAD	EAST XAD
Job No & Lab Sample ID	A08-8899 A8889901	A08-8511 A8851103	A08-8683 A8868303	A08-8685 A8868503	A08-8746 A8874601
Sample Date	NA	07/15/2008 16:00	07/16/2008 16:00	07/17/2008 16:00	07/18/2008 16:00
Received Date		07/16/2008 09:20	07/18/2008 09:15	07/18/2008 09:15	07/21/2008 08:45
Extraction Date		07/16/2008 22:18	07/21/2008 21:20	07/21/2008 23:04	07/21/2008 19:01
Analysis Date		-	-	-	-
Extraction HT Met?	NA	YES	YES	YES	YES
Analytical HT Met?		AIR	AIR	AIR	AIR
Sample Matrix		1.0	1.0	1.0	1.0
Dilution Factor		1.107 LITERS	1.144 LITERS	1.135 LITERS	1.0 LITERS
Sample wt/vol					
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-8845 A8884503	EAST XAD A08-8899 A8889902	NORTH ANASORB A08-8511 A8851101	NORTH ANASORB A08-8683 A8868301	NORTH ANASORB A08-8684 A8868401
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/Vol % Dry	NA	NA	07/15/2008 16:00 07/16/2008 09:20 07/18/2008 15:33 - YES AIR 2.0 1.121 LITERS	07/16/2008 16:00 07/18/2008 09:15 07/18/2008 19:12 - YES AIR 2.0 1.117 LITERS	07/17/2008 16:00 07/18/2008 09:15 07/18/2008 18:52 - YES AIR 2.0 1.26 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-8845 A8884503	EAST XAD A08-8899 A8889902	NORTH ANASORB A08-8511 A8851101	NORTH ANASORB A08-8683 A8868301	NORTH ANASORB A08-8684 A8868401
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/Vol % Dry	07/22/2008 16:00 07/23/2008 09:20 07/25/2008 18:06 - YES AIR 1.0 1.09 LITERS	07/23/2008 16:00 07/24/2008 09:00 07/25/2008 19:15 - YES AIR 1.0 1.164 LITERS	NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-8747 A8874701	NORTH ANASORB A08-8843 A8884301	NORTH ANASORB A08-8897 A8889701	NORTH XAD A08-8511 A8851102	NORTH XAD A08-8683 A8868302
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/18/2008 16:00 07/21/2008 08:45 07/24/2008 12:02 - YES AIR 2.0 0.5 LITERS	07/22/2008 16:00 07/23/2008 09:20 07/24/2008 11:42 - YES AIR 2.0 1.205 LITERS	07/23/2008 16:00 07/24/2008 09:00 07/28/2008 10:18 - YES AIR 2.0 1.203 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-8747 A8874701	NORTH ANASORB A08-8843 A8884301	NORTH ANASORB A08-8897 A8889701	NORTH XAD A08-8511 A8851102	NORTH XAD A08-8683 A8868302
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	07/15/2008 16:00 07/16/2008 09:20 07/16/2008 21:43 - YES AIR 1.0 1.106 LITERS	07/16/2008 16:00 07/18/2008 09:15 07/21/2008 20:10 - YES AIR 1.0 1.127 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-8685 A8868501	NORTH XAD A08-8747 A8874702	NORTH XAD A08-8845 A8884501	NORTH XAD A08-8897 A8889702	SOUTH ANASORB A08-8511 A8851106
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA 07/17/2008 16:00 07/18/2008 09:15 07/21/2008 22:29 - YES AIR 1.0 1.161 LITERS	NA 07/18/2008 16:00 07/21/2008 08:45 07/22/2008 00:14 - YES AIR 1.0 1.0 LITERS	NA 07/22/2008 16:00 07/23/2008 09:20 07/25/2008 16:56 - YES AIR 1.0 1.116 LITERS	NA 07/23/2008 16:00 07/24/2008 09:00 07/25/2008 13:28 - YES AIR 1.0 1.2 LITERS	07/15/2008 16:00 07/16/2008 09:20 07/18/2008 16:13 - YES AIR 2.0 1.266 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-8685 A8868501	NORTH XAD A08-8747 A8874702	NORTH XAD A08-8845 A8884501	NORTH XAD A08-8897 A8889702	SOUTH ANASORB A08-8511 A8851106
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/17/2008 16:00 07/18/2008 09:15 07/21/2008 22:29 - YES AIR 1.0 1.161 LITERS	07/18/2008 16:00 07/21/2008 08:45 07/22/2008 00:14 - YES AIR 1.0 1.0 LITERS	07/22/2008 16:00 07/23/2008 09:20 07/25/2008 16:56 - YES AIR 1.0 1.116 LITERS	07/23/2008 16:00 07/24/2008 09:00 07/25/2008 13:28 - YES AIR 1.0 1.2 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-8683 A8868306	SOUTH ANASORB A08-8685 A8868506	SOUTH ANASORB A08-8747 A8874706	SOUTH ANASORB A08-8845 A8884504	SOUTH ANASORB A08-8899 A8889905
Sample Date	07/16/2008	07/17/2008	07/18/2008	07/22/2008	07/23/2008
Received Date	07/18/2008	07/18/2008	07/21/2008	07/23/2008	07/24/2008
Extraction Date	07/18/2008	07/18/2008	07/24/2008	07/24/2008	07/28/2008
Analysis Date	19:52	20:51	13:01	13:41	11:51
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	1.089	1.099	0.5	1.104	1.353
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-8510 A8851002	SOUTH XAD A08-8681 A8868102	SOUTH XAD A08-8684 A8868402	SOUTH XAD A08-8747 A8874707	SOUTH XAD A08-8843 A8884302
Sample Date	07/15/2008 16:00	07/16/2008 16:00	07/17/2008 16:00	07/18/2008 16:00	07/22/2008 16:00
Received Date	07/16/2008 09:20	07/18/2008 09:15	07/18/2008 09:15	07/21/2008 08:45	07/23/2008 09:20
Extraction Date	07/16/2008 21:08	07/21/2008 16:41	07/21/2008 17:51	07/22/2008 01:23	07/25/2008 14:37
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	1.421 LITERS	1.096 LITERS	1.09 LITERS	1.0 LITERS	1.149 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-8899 A8889906	SOUTH XAD DUP A08-8843 A8884303	WEST ANASORB A08-8511 A8851104	WEST ANASORB A08-8683 A8868304	WEST ANASORB A08-8685 A8868504
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA 07/23/2008 16:00 07/24/2008 09:00 07/25/2008 20:25 - YES AIR 1.0 1.095 LITERS	NA 07/22/2008 16:00 07/23/2008 09:20 07/25/2008 15:47 - YES AIR 1.0 1.149 LITERS	07/15/2008 16:00 07/16/2008 09:20 07/18/2008 15:53 - YES AIR 2.0 1.342 LITERS	07/16/2008 16:00 07/18/2008 09:15 07/18/2008 19:32 - YES AIR 2.0 1.153 LITERS	07/17/2008 16:00 07/18/2008 09:15 07/18/2008 20:31 - YES AIR 2.0 1.189 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-8899 A8889906	SOUTH XAD DUP A08-8843 A8884303	WEST ANASORB A08-8511 A8851104	WEST ANASORB A08-8683 A8868304	WEST ANASORB A08-8685 A8868504
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/23/2008 16:00 07/24/2008 09:00 07/25/2008 20:25 - YES AIR 1.0 1.095 LITERS	07/22/2008 16:00 07/23/2008 09:20 07/25/2008 15:47 - YES AIR 1.0 1.149 LITERS	NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-8747 A8874704	WEST ANASORB A08-8845 A8884505	WEST ANASORB A08-8899 A8889903	WEST XAD A08-8511 A8851105	WEST XAD A08-8683 A8868305
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/18/2008 16:00 07/21/2008 08:45 07/24/2008 12:41 - YES AIR 2.0 0.5 LITERS	07/22/2008 16:00 07/23/2008 09:20 07/24/2008 14:20 - YES AIR 2.0 1.096 LITERS	07/23/2008 16:00 07/24/2008 09:00 07/28/2008 11:18 - YES AIR 2.0 1.214 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-8747 A8874704	WEST ANASORB A08-8845 A8884505	WEST ANASORB A08-8899 A8889903	WEST XAD A08-8511 A8851105	WEST XAD A08-8683 A8868305
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	07/15/2008 16:00 07/16/2008 09:20 07/16/2008 22:52 - YES AIR 1.0 1.086 LITERS	07/16/2008 16:00 07/18/2008 09:15 07/21/2008 21:55 - YES AIR 1.0 1.161 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST XAD A08-8685 A8868505	WEST XAD A08-8747 A8874705	WEST XAD A08-8845 A8884506	WEST XAD A08-8899 A8889904
Sample Date	07/17/2008 16:00	07/18/2008 16:00	07/22/2008 16:00	07/23/2008 16:00
Received Date	07/18/2008 09:15	07/21/2008 08:45	07/23/2008 09:20	07/24/2008 09:00
Extraction Date	07/21/2008 23:39	07/22/2008 00:49	07/25/2008 18:41	07/25/2008 19:50
Analysis Date	-	-	-	-
Extraction HI Met?	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0
Dilution Factor	1.238	1.0	1.164	1.382
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-8510 A8B1893601	Matrix Spike Blank A08-8510 A8B1908301	Matrix Spike Blank A08-8746 A8B1978001	Matrix Spike Blank A08-8747 A8B1945601	Matrix Spike Blank A08-8897 A8B1945901
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/18/2008 14:34 - - AIR 1.0 0.5 LITERS	NA	07/24/2008 11:02 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-8510 A8B1893601	Matrix Spike Blank A08-8510 A8B1908301	Matrix Spike Blank A08-8746 A8B1978001	Matrix Spike Blank A08-8747 A8B1945601	Matrix Spike Blank A08-8897 A8B1945901
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/16/2008 19:59 - - AIR 1.0 1.0 LITERS	NA	07/21/2008 14:56 - - AIR 1.0 1.0 LITERS	NA	07/25/2008 10:33 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-8897 A8B1962001	Matrix Spike Blk Dup A08-8511 A8B1893602	Matrix Spike Blk Dup A08-8747 A8B1918002	Matrix Spike Blk Dup A08-8845 A8B1945602
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/28/2008 08:39 - - AIR 1.0 0.5 LITERS	NA - - AIR 1.0 0.5 LITERS	NA - - AIR 1.0 0.5 LITERS	07/24/2008 11:22 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-8897 A8B1962001	Matrix Spike Blk Dup A08-8511 A8B1893602	Matrix Spike Blk Dup A08-8747 A8B1918002	Matrix Spike Blk Dup A08-8845 A8B1945602
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA - - AIR 1.0 1.0 LITERS	07/16/2008 20:33 - - AIR 1.0 1.0 LITERS	07/21/2008 15:32 - - AIR 1.0 1.0 LITERS	NA - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-8843 A8B1945902	Matrix Spike Blk Dup A08-8899 A8B1962002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/28/2008 08:59 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-8843 A8B1945902	Matrix Spike Blk Dup A08-8899 A8B1962002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/25/2008 11:07 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8510 A8B1893603	Method Blank A08-8684 A8B1908303	Method Blank A08-8747 A8B1918003	Method Blank A08-8747 A8B1945603	Method Blank A08-8897 A8B1945903
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/18/2008 14:14 - - AIR 1.0 0.5 LITERS	NA	07/24/2008 10:43 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8510 A8B1893603	Method Blank A08-8684 A8B1908303	Method Blank A08-8747 A8B1918003	Method Blank A08-8747 A8B1945603	Method Blank A08-8897 A8B1945903
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/16/2008 19:24 - - AIR 1.0 1.0 LITERS	NA	07/21/2008 16:07 - - AIR 1.0 1.0 LITERS	NA	07/25/2008 12:53 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8897 A8B1962003			
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/28/2008 09:18 - - AIR 1.0 0.5 LITERS			

TAL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **D. Dennis** Date: **7-11-08** Chain of Custody Number: **370152**
 Address: **4917 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4803** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**
 Project Name and Location (State): **Hammond MAP** Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No.: **1758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
North Anasorb	7-15-08	16:00	X					X							Total Flow ↓ 1121 2.075 540 ↓ Special Instructions/ Conditions of Receipt Flow rate ↓ 4 ppm MISMA ↓	
North Xad																
East Anasorb																
East Xad																
West Anasorb																
West Xad																
South Anasorb																
South Xad																

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other
 1. Relinquished By: **J. Hunt** Date: **7-15-08** Time: **16:00** **see comments**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **J. Hunt** Date: **7-16-08** Time: **09:20**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority sample w/ 13 T.A.T. All others normal**

Chain of Custody Record

TAL-4142 (0907)

Client: **Haley Aldrich** Project Manager: **David Demas** Date: **7-16-08** Chain of Custody Number: **3699556**

Address: **4912 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____ Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46032** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond MGR** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH	
North Anasorb	7-16-08	16:00	X			X							X	1117 2.179 5410
North Xad													X	1127 2.087
East Anasorb *													X	1088 2.014
East Xad													X	1144 2.119
West Anasorb													X	1153 2.178
West Xad													X	1161 2.150
South Anasorb *													X	1089 2.016
South Xad													X	1096 2.029

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal:
 Disposal By Lab Archive For _____ Months Return To Client

QC Requirements (Specify): _____

Relinquished By: **[Signature]** Date: **7-16-08** Time: **16:30**

Relinquished By: **[Signature]** Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____

Received By: **Andrew Reynolds** Date: **7-18-08** Time: **0915**

Received By: _____ Date: _____ Time: _____

Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w/ 1-3 J.A.T. - all others normal.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

AL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **7-17-08** Chain of Custody Number: **370154**

Address: **4912 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____ Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46032** Site Contact: **J. Hunt** Lab Contact: _____

Project Name and Location (State): **Hammond MGP** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: **12793-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Soil	Sed.	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH
North Anasorb	7-17-08	16:00	X			X							Total Flow Rate 570
North Rad													
East Anasorb													
East Rad													
West Anasorb													
West Rad													
South Anasorb													Total Flow Rate 570
South Rad													

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months

Sample Disposal: Other sec comm

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days

1. Relinquished By: **John J. [Signature]** Date: **7-17-08** Time: **16:00**

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **John J. [Signature]** Date: **7-19-08** Time: **09:45**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority S-W 1/3 F&A All others normal**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **7-18-08** Chain of Custody Number: **369661**

Address: **4012 S. Nohman** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____ Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Hunt** Lab Contact: _____ Analysis (Attach list if more space is needed): _____

Project Name and Location (State): **Hammond MGP** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Aqueous	Sol	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb	7-18-08	16:00	X											Total Flow Rate
North Xad														1085 2.009 540
East Anasorb														1117 2.068
East Xad *														1085 2.009
West Anasorb														1117 2.180
West Xad														1108 2.052
South Anasorb														1353 2.506
South Xad														1001 2.021
														1189 2.201

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comm.**

1. Relinquished By: **[Signature]** Date: **7-18-08** Time: **16:30**
 2. Relinquished By: **[Signature]** Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **[Signature]** Date: **7/21/08** Time: **0845**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w/ 1-3 T.A.T. All others norm. AMBIENT**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4142 (0907)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **7-27-08** Chain of Custody Number: **388605**

Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4803** Lab Number: _____ Page: _____ of _____

City: **Hammond** State: **IN** Zip Code: **46322** Site Contact: **J. Hurt** Lab Contact: **C. Foy**

Project Name and Location (State): **Hammond MGP, IN** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Total Flowe (g/min) Total mins		
			Air	Soil	Sed.	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH				
North Anasorb *	7-23-08	16:00	X			X								X NOC	1209 2.080	540
North Xad															120 2.283	
East Anasorb															1187 2.087	
East Xad															1164 2.150	
West Anasorb															1214 2.248	
West Xad															1582 2.589	
South Anasorb															1253 2.500	
South Xad															1075 2.027	

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **5PE Comments**

1. Relinquished By: **[Signature]** Date: **7-27-08** Time: **16:30**
 2. Relinquished By: **[Signature]** Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w 1-3 T.A.T. All others T.A.T. 3.5**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

ANALYTICAL REPORT

Job#: A08-8962, A08-8966, A08-9063, A08-9064, A08-9096, A08-9101,
A08-9170, A08-9172, A08-9221, A08-9223

Project#: NY3A9043

SDG#: A88962

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

David Demas
H&A
12220 N Meridian St., Ste 165
Carmel, IN 46032

TestAmerica Laboratories Inc.

Candace L. Fox

Candace L. Fox
Project Manager

08/27/2008

RECEIVED

SEP 03 2008

HALEY AND ALDRICH



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A8896603	EAST ANASORB	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906403	EAST ANASORB	AIR	07/25/2008	15:00	07/28/2008	08:40
A8910101	EAST ANASORB	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917203	EAST ANASORB	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922301	EAST ANASORB	AIR	07/30/2008	16:00	07/31/2008	09:05
A8896604	EAST XAD	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906404	EAST XAD	AIR	07/25/2008	15:00	07/28/2008	08:40
A8910102	EAST XAD	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917204	EAST XAD	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922302	EAST XAD	AIR	07/30/2008	16:00	07/31/2008	09:05
A8896601	NORTH ANASORB	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906401	NORTH ANASORB	AIR	07/25/2008	15:00	07/28/2008	08:40
A8909601	NORTH ANASORB	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917201	NORTH ANASORB	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922101	NORTH ANASORB	AIR	07/30/2008	16:00	07/31/2008	09:05
A8896602	NORTH XAD	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906402	NORTH XAD	AIR	07/25/2008	15:00	07/28/2008	08:40
A8909602	NORTH XAD	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917202	NORTH XAD	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922102	NORTH XAD	AIR	07/30/2008	16:00	07/31/2008	09:05
A8906407	OUTSIDE FENCE ANASOR	AIR	07/25/2008	15:00	07/28/2008	08:40
A8896201	SOUTH ANASORB	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906301	SOUTH ANASORB	AIR	07/25/2008	15:00	07/28/2008	08:40
A8910105	SOUTH ANASORB	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917001	SOUTH ANASORB	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922305	SOUTH ANASORB	AIR	07/30/2008	16:00	07/31/2008	09:05
A8896202	SOUTH XAD	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906302	SOUTH XAD	AIR	07/25/2008	15:00	07/28/2008	08:40
A8910106	SOUTH XAD	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917002	SOUTH XAD	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922306	SOUTH XAD	AIR	07/30/2008	16:00	07/31/2008	09:05
A8896605	WEST ANASORB	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906405	WEST ANASORB	AIR	07/25/2008	15:00	07/28/2008	08:40
A8910103	WEST ANASORB	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917205	WEST ANASORB	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922303	WEST ANASORB	AIR	07/30/2008	16:00	07/31/2008	09:05
A8896606	WEST XAD	AIR	07/24/2008	16:00	07/25/2008	09:15
A8906406	WEST XAD	AIR	07/25/2008	15:00	07/28/2008	08:40
A8910104	WEST XAD	AIR	07/28/2008	16:30	07/29/2008	09:10
A8917206	WEST XAD	AIR	07/29/2008	16:00	07/30/2008	09:15
A8922304	WEST XAD	AIR	07/30/2008	16:00	07/31/2008	09:05

METHODS SUMMARY

Job#: A08-8962, A08-8966, A08-9063, A08-9064, A08-9096, A08-9101,
A08-9170, A08-9172, A08-9221, A08-9223

Project#: NY3A9043
SDG#: A88962
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL</u>
	<u>METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A08-8962, A08-8966, A08-9063, A08-9064, A08-9096, A08-9101,
A08-9170, A08-9172, A08-9221, A08-9223

Project#: NY3A9043
SDG#: A88962
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-8962

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-8966

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-9063

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
Samples were received at ambient temperature. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, all detected concentrations and detection limits should be considered estimated values.

All air tubes were received with water inside the tube. Sample may have been contaminated with the ice used to cool samples during shipping. Samples were logged in as per CLF.

A08-9064

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
Samples were received at ambient temperature. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, all detected concentrations and detection limits should be considered estimated values.

All air tubes were received with water inside the tube. Sample may have been contaminated with the ice used to cool samples during shipping. Samples were logged in as per CLF.

A08-9096

Sample Cooler(s) were received at the following temperature(s); 4.5 °C
All samples were received in good condition.

A08-9101

Sample Cooler(s) were received at the following temperature(s); 4.5 °C
All samples were received in good condition.

A08-9170

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-9172

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-9221

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-9223

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

GC Volatile Data

For NIOSH methods 1501/5515, all the tubes were missing either one or both end caps, contained water within the tube media and results may be biased low.

For NIOSH methods 1501, all the tubes were missing either one or both end caps, thus results may be biased low.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
SOUTH ANASORB	A8896201	1501	2.00	013
NORTH ANASORB	A8896601	1501	2.00	013
EAST ANASORB	A8896603	1501	2.00	013
WEST ANASORB	A8896605	1501	2.00	013
SOUTH ANASORB	A8906301	1501	2.00	013
NORTH ANASORB	A8906401	1501	2.00	013
EAST ANASORB	A8906403	1501	2.00	013
WEST ANASORB	A8906405	1501	2.00	013
OUTSIDE FENCE ANASOR	A8906407	1501	2.00	013
NORTH ANASORB	A8909601	1501	2.00	013
EAST ANASORB	A8910101	1501	2.00	013
WEST ANASORB	A8910103	1501	2.00	013
SOUTH ANASORB	A8910105	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

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NISource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-8966 07/24/2008	A8896603	EAST ANASORB A08-9064 07/25/2008	A8906403	EAST ANASORB A08-9101 07/28/2008	A8910101	EAST ANASORB A08-9172 07/29/2008	A8917203
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.7	ND	3.8	ND	2.7	ND	1.7
Ethylbenzene	UG/M3	ND	3.7	ND	3.8	ND	2.7	ND	1.7
m/p-Xylenes	UG/M3	ND	3.7	ND	3.8	ND	2.7	ND	1.7
o-Xylene	UG/M3	ND	3.7	ND	3.8	ND	2.7	ND	1.7
Toluene	UG/M3	ND	3.7	ND	3.8	ND	2.7	ND	1.7

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-9223 07/30/2008	A8922301	NORTH ANASORB A08-8966 07/24/2008	A8896601	NORTH ANASORB A08-9064 07/25/2008	A8906401	NORTH ANASORB A08-9096 07/28/2008	A8909601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	1.7	ND	3.5	ND	3.8	ND	3.4
Ethylbenzene	UG/M3	ND	1.7	ND	3.5	ND	3.8	ND	3.4
m/p-Xylenes	UG/M3	ND	1.7	ND	3.5	ND	3.8	ND	3.4
o-Xylene	UG/M3	ND	1.7	ND	3.5	ND	3.8	ND	3.4
Toluene	UG/M3	ND	1.7	3.9	3.5	ND	3.8	ND	3.4

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-9172 07/29/2008	A8917201	NORTH ANASORB A08-9221 07/30/2008	A8922101	OUTSIDE FENCE ANASORB A08-9064 07/25/2008	A8906407	SOUTH ANASORB A08-8962 07/24/2008	A8896201
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	1.8	ND	1.8	ND	4.0	ND	3.0
Ethylbenzene	UG/M3	ND	1.8	ND	1.8	ND	4.0	ND	3.0
m/p-Xylenes	UG/M3	ND	1.8	ND	1.8	ND	4.0	ND	3.0
o-Xylene	UG/M3	ND	1.8	ND	1.8	ND	4.0	ND	3.0
Toluene	UG/M3	ND	1.8	ND	1.8	ND	4.0	ND	3.0

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-9063 07/25/2008	A8906301	SOUTH ANASORB A8910105 07/28/2008	A8910105	SOUTH ANASORB A08-9170 07/29/2008	A8917001	SOUTH ANASORB A08-9223 07/30/2008	A8922305
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.8	ND	3.0	ND	1.4	ND	1.5
Ethylbenzene	UG/M3	ND	3.8	ND	3.0	ND	1.4	ND	1.5
m/p-Xylenes	UG/M3	ND	3.8	ND	3.0	ND	1.4	ND	1.5
o-Xylene	UG/M3	ND	3.8	ND	3.0	ND	1.4	ND	1.5
Toluene	UG/M3	ND	3.8	ND	3.0	ND	1.4	ND	1.5

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-8966 07/24/2008	A8896605	WEST ANASORB A08-9064 07/25/2008	A8906405	WEST ANASORB A08-9101 07/28/2008	A8910103	WEST ANASORB A08-9172 07/29/2008	A8917205
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	1.9	ND	3.4	ND	2.9	ND	1.5
Ethylbenzene	UG/M3	ND	1.9	ND	3.4	ND	2.9	ND	1.5
m/p-Xylenes	UG/M3	ND	1.9	ND	3.4	ND	2.9	ND	1.5
o-Xylene	UG/M3	ND	1.9	ND	3.4	ND	2.9	ND	1.5
Toluene	UG/M3	ND	1.9	ND	3.4	ND	2.9	ND	1.5

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-9223 07/30/2008	A8922303						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	1.5	NA		NA		NA	
Ethylbenzene	UG/M3	ND	1.5	NA		NA		NA	
m/p-Xylenes	UG/M3	ND	1.5	NA		NA		NA	
o-Xylene	UG/M3	ND	1.5	NA		NA		NA	
Toluene	UG/M3	ND	1.5	NA		NA		NA	

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Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID	Lab ID	Units	EAST XAD A08-8966 07/24/2008	A8896604	EAST XAD A08-9064 07/25/2008	A8906404	EAST XAD A08-9101 07/28/2008	A8910102	EAST XAD A08-9172 07/29/2008	A8917204
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Acenaphthylene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Anthracene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Benzo(a)anthracene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Benzo(a)pyrene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Benzo(b)fluoranthene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Benzo(ghi)perylene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Benzo(k)fluoranthene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Chrysene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Dibenzo(a,h)anthracene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Fluoranthene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Fluorene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Naphthalene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Phenanthrene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2
Pyrene		UG/M3	ND	4.3	ND	4.8	ND	4.1	ND	4.2

Client ID	Lab ID	Units	EAST XAD A08-9223 07/30/2008	A8922302	NORTH XAD A08-8966 07/24/2008	A8896602	NORTH XAD A08-9064 07/25/2008	A8906402	NORTH XAD A08-9096 07/28/2008	A8909602
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Acenaphthylene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Anthracene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Benzo(a)anthracene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Benzo(a)pyrene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Benzo(b)fluoranthene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Benzo(ghi)perylene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Benzo(k)fluoranthene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Chrysene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Dibenzo(a,h)anthracene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Fluoranthene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Fluorene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Naphthalene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Phenanthrene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7
Pyrene		UG/M3	ND	4.3	ND	4.4	ND	4.5	ND	3.7

Client ID Job No Sample Date	Lab ID	NORTH XAD A08-9172 07/29/2008	A8917202	NORTH XAD A08-9221 07/30/2008	A8922102	SOUTH XAD A08-8962 07/24/2008	A8896202	SOUTH XAD A08-9063 07/25/2008	A8906302
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Acenaphthylene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Anthracene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Benzo(a)anthracene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Benzo(a)pyrene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Benzo(b)fluoranthene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Benzo(ghi)perylene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Benzo(k)fluoranthene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Chrysene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Dibenzo(a,h)anthracene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Fluoranthene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Fluorene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Naphthalene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Phenanthrene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1
Pyrene	UG/M3	ND	4.0	ND	4.0	ND	4.0	ND	5.1

Client ID Job No Sample Date	Lab ID	SOUTH XAD A08-9101 07/28/2008	A8910106	SOUTH XAD A08-9170 07/29/2008	A8917002	SOUTH XAD A08-9223 07/30/2008	A8922306	WEST XAD A08-8966 07/24/2008	A8896606
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Acenaphthylene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Anthracene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Benzo(a)anthracene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Benzo(a)pyrene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Benzo(b)fluoranthene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Benzo(ghi)perylene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Benzo(k)fluoranthene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Chrysene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Dibenzo(a,h)anthracene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Fluoranthene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Fluorene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Naphthalene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Phenanthrene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7
Pyrene	UG/M3	ND	3.7	ND	3.9	ND	3.9	ND	3.7

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NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID	Lab ID	Units	WEST XAD A08-9064 07/25/2008	A8906406	WEST XAD A08-9101 07/28/2008	A8910104	WEST XAD A08-9172 07/29/2008	A8917206	WEST XAD A08-9223 07/30/2008	A8922304
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Acenaphthylene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Anthracene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Benzo(a)anthracene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Benzo(a)pyrene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Benzo(b)fluoranthene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Benzo(ghi)perylene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Benzo(k)fluoranthene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Chrysene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Dibenzo(a,h)anthracene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Fluoranthene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Fluorene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Indeno(1,2,3-cd)pyrene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Naphthalene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Phenanthrene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3
Pyrene		UG/M3	ND	2.7	ND	4.0	ND	4.3	ND	4.3

Chronology and QC Summary Package

Date: 08/06/2008
Time: 10:25:46

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A08-8962		Method Blank A08-9064		Method Blank A08-9170		Method Blank A881996403	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0

Date: 08/06/2008
Time: 10:25:46

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Rept: AN0326

NiSource, Inc.
Hammond, IN - Former MGP

Client ID Job No Sample Date	Lab ID	Method Blank A08-8962		Method Blank A08-9101		Method Blank A08-9223		Method Blank A881982103	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Acenaphthylene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Anthracene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Benzo(a)anthracene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Benzo(a)pyrene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Benzo(b)fluoranthene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Benzo(ghi)perylene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Benzo(k)fluoranthene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Chrysene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Dibenzo(a,h)anthracene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Fluoranthene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Fluorene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Naphthalene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Phenanthrene		ND	5.0	ND	5.0	ND	5.0	NA	5.0
Pyrene		ND	5.0	ND	5.0	ND	5.0	NA	5.0

Date: 08/06/2008
Time: 10:23:46

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-8962 A8B1962001		Matrix Spike Blank A08-9096 A8B1965801		Matrix Spike Blank A08-9170 A8B1996401		Matrix Spike Blk Dup A08-8966 A8B1962002	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		18	4.0	18	4.0	18	4.0	17	4.0
Ethylbenzene		19	4.0	19	4.0	18	4.0	16	4.0
m/p-Xylenes		38	4.0	37	4.0	36	4.0	32	4.0
o-Xylene		19	4.0	18	4.0	18	4.0	16	4.0
Toluene		19	4.0	19	4.0	18	4.0	17	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-9101 A8B1965802		Matrix Spike Blk Dup A08-9170 A8B1996402		Matrix Spike Blk Dup A08-9170 A8B1996402		Matrix Spike Blk Dup A08-9170 A8B1996402	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		18	4.0	18	4.0	NA	4.0	NA	
Ethylbenzene		18	4.0	18	4.0	NA	4.0	NA	
m/p-Xylenes		36	4.0	37	4.0	NA	4.0	NA	
o-Xylene		18	4.0	18	4.0	NA	4.0	NA	
Toluene		18	4.0	18	4.0	NA	4.0	NA	

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-8966	Matrix Spike Blank A08-9101	Matrix Spike Blank A08-9223	Matrix Spike Blk Dup A08-8966	Matrix Spike Blk Dup A08-9101	Matrix Spike Blk Dup A08-9223
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	9.9	5.0	8.7	5.0	9.8	5.0
Acenaphthylene	UG/M3	9.9	5.0	8.7	5.0	9.7	5.0
Anthracene	UG/M3	9.9	5.0	8.8	5.0	9.7	5.0
Benzo(a)anthracene	UG/M3	9.0	5.0	8.4	5.0	9.2	5.0
Benzo(a)pyrene	UG/M3	8.6	5.0	8.2	5.0	8.9	5.0
Benzo(b)fluoranthene	UG/M3	8.7	5.0	8.2	5.0	8.9	5.0
Benzo(ghi)perylene	UG/M3	8.9	5.0	8.2	5.0	8.9	5.0
Benzo(k)fluoranthene	UG/M3	8.7	5.0	8.2	5.0	8.8	5.0
Chrysene	UG/M3	9.1	5.0	8.5	5.0	9.3	5.0
Dibenzo(a,h)anthracene	UG/M3	8.5	5.0	7.9	5.0	8.5	5.0
Fluoranthene	UG/M3	9.6	5.0	8.7	5.0	9.6	5.0
Fluorene	UG/M3	10	5.0	8.9	5.0	9.8	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.6	5.0	8.0	5.0	8.7	5.0
Naphthalene	UG/M3	9.5	5.0	8.6	5.0	9.5	5.0
Phenanthrene	UG/M3	10	5.0	8.8	5.0	9.8	5.0
Pyrene	UG/M3	9.6	5.0	8.8	5.0	9.6	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-9096	Matrix Spike Blk Dup A08-9170	Matrix Spike Blk Dup A08-92102	
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	8.9	5.0	9.2	5.0
Acenaphthylene	UG/M3	9.0	5.0	9.1	5.0
Anthracene	UG/M3	9.0	5.0	9.2	5.0
Benzo(a)anthracene	UG/M3	8.4	5.0	8.5	5.0
Benzo(a)pyrene	UG/M3	8.1	5.0	8.2	5.0
Benzo(b)fluoranthene	UG/M3	8.1	5.0	8.2	5.0
Benzo(ghi)perylene	UG/M3	8.2	5.0	8.3	5.0
Benzo(k)fluoranthene	UG/M3	8.0	5.0	8.1	5.0
Chrysene	UG/M3	8.4	5.0	8.5	5.0
Dibenzo(a,h)anthracene	UG/M3	7.9	5.0	8.0	5.0
Fluoranthene	UG/M3	8.8	5.0	9.0	5.0
Fluorene	UG/M3	9.0	5.0	9.3	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.0	5.0	8.2	5.0
Naphthalene	UG/M3	8.7	5.0	8.8	5.0
Phenanthrene	UG/M3	9.0	5.0	9.2	5.0
Pyrene	UG/M3	8.8	5.0	9.1	5.0

SDG: A88962
 Client Sample ID: Method Blank
 Lab Sample ID: A8B1945903
 Matrix Spike Blank
 A8B1945901
 Matrix Spike Blk Dup
 A8B1945902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.48	8.30	10.0	10.0	85	83	84	2	30.0	34-123
Benzo(a)anthracene	UG/M3	9.01	8.88	10.0	10.0	90	89	90	1	30.0	54-118
Anthracene	UG/M3	9.93	9.80	10.0	10.0	99	98	99	1	30.0	61-119
Acenaphthene	UG/M3	9.90	9.67	10.0	10.0	99	97	98	2	30.0	56-122
Naphthalene	UG/M3	9.49	8.98	10.0	10.0	95	90	93	5	30.0	56-121
Chrysene	UG/M3	9.08	8.91	10.0	10.0	91	89	90	2	30.0	52-119
Benzo(a)pyrene	UG/M3	8.64	8.44	10.0	10.0	86	84	85	2	30.0	45-120
Pyrene	UG/M3	9.65	9.56	10.0	10.0	96	96	96	0	30.0	55-120
Acenaphthylene	UG/M3	9.93	9.74	10.0	10.0	99	97	98	2	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	8.61	8.37	10.0	10.0	86	84	85	2	30.0	34-118
Benzo(b)fluoranthene	UG/M3	8.72	8.41	10.0	10.0	87	84	86	4	30.0	46-116
Benzo(k)fluoranthene	UG/M3	8.67	8.48	10.0	10.0	87	85	86	2	30.0	49-115
Phenanthrene	UG/M3	9.98	9.76	10.0	10.0	100	98	99	2	30.0	60-120
Fluorene	UG/M3	9.99	9.78	10.0	10.0	100	98	99	2	30.0	59-121
Fluoranthene	UG/M3	9.58	9.54	10.0	10.0	96	95	96	1	30.0	55-119
Benzo(ghi)perylene	UG/M3	8.91	9.05	10.0	10.0	89	90	90	1	30.0	29-123

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: A88962
 Client Sample ID: Method Blank
 Lab Sample ID: A8B1962003
 Matrix Spike Blank
 A8B1962001
 Matrix Spike Blk Dup
 A8B1962002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.5	16.7	20.0	20.0	93	84	89	10	30.0	63-119
Toluene	UG/M3	19.3	16.6	20.0	20.0	97	83	90	16	30.0	70-126
Ethylbenzene	UG/M3	19.2	16.3	20.0	20.0	96	82	89	16	30.0	72-129
m/p-Xylenes	UG/M3	38.0	32.1	40.0	40.0	95	80	88	17	30.0	72-128
o-Xylene	UG/M3	18.7	15.8	20.0	20.0	94	79	87	17	30.0	71-126

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: A88962
 Client Sample ID: Method Blank
 Lab Sample ID: A8B1965803

Matrix Spike Blank
 A8B1965801

Matrix Spike Blk Dup
 A8B1965802

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.4	17.7	20.0	20.0	92	88	90	4	30.0	63-119
Toluene	UG/M3	18.9	18.1	20.0	20.0	95	91	93	4	30.0	70-126
Ethylbenzene	UG/M3	18.8	17.9	20.0	20.0	94	90	92	4	30.0	72-129
m/p-Xylenes	UG/M3	37.2	35.5	40.0	40.0	93	89	91	4	30.0	72-128
o-Xylene	UG/M3	18.4	17.5	20.0	20.0	92	88	90	4	30.0	71-126

SDG: A88962
 Client Sample ID: Method Blank
 Lab Sample ID: A8B1966103
 Matrix Spike Blank
 A8B1966101
 Matrix Spike Blk Dup
 A8B1966102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	7.91	7.86	10.0	10.0	79	79	79	0	30.0	34-123
Benzo(a)anthracene	UG/M3	8.42	8.39	10.0	10.0	84	84	84	0	30.0	54-118
Anthracene	UG/M3	8.82	8.98	10.0	10.0	88	90	89	2	30.0	61-119
Acenaphthene	UG/M3	8.74	8.89	10.0	10.0	87	89	88	2	30.0	56-122
Naphthalene	UG/M3	8.55	8.67	10.0	10.0	86	87	87	1	30.0	56-121
Chrysene	UG/M3	8.52	8.45	10.0	10.0	85	84	85	1	30.0	52-119
Benzo(a)pyrene	UG/M3	8.18	8.07	10.0	10.0	82	81	82	1	30.0	45-120
Pyrene	UG/M3	8.77	8.85	10.0	10.0	88	88	88	0	30.0	55-120
Acenaphthylene	UG/M3	8.73	8.98	10.0	10.0	87	90	89	3	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	8.03	8.00	10.0	10.0	80	80	80	0	30.0	34-118
Benzo(b)fluoranthene	UG/M3	8.24	8.10	10.0	10.0	82	81	82	1	30.0	46-116
Benzo(k)fluoranthene	UG/M3	8.15	8.02	10.0	10.0	82	80	81	2	30.0	49-115
Phenanthrene	UG/M3	8.83	9.04	10.0	10.0	88	90	89	2	30.0	60-120
Fluorene	UG/M3	8.86	9.00	10.0	10.0	89	90	90	1	30.0	59-121
Fluoranthene	UG/M3	8.74	8.80	10.0	10.0	87	88	88	1	30.0	55-119
Benzo(ghi)perylene	UG/M3	8.17	8.24	10.0	10.0	82	82	82	0	30.0	29-123

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: A88962
 Client Sample ID: Method Blank
 Lab Sample ID: A8B1982103
 Matrix Spike Blank
 Matrix Spike Blk Dup
 A8B1982101
 A8B1982102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		AVG	% RPD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	8.50	8.05	10.0	10.0	85	80	83	6	30.0	34-123
Benzo(a)anthracene	UG/M3	9.24	8.48	10.0	10.0	92	85	89	8	30.0	54-118
Anthracene	UG/M3	9.79	9.20	10.0	10.0	98	92	95	6	30.0	61-119
Acenaphthene	UG/M3	9.77	9.16	10.0	10.0	98	92	95	6	30.0	56-122
Naphthalene	UG/M3	9.47	8.82	10.0	10.0	95	88	92	8	30.0	56-121
Chrysene	UG/M3	9.34	8.54	10.0	10.0	93	85	89	9	30.0	52-119
Benzo(a)pyrene	UG/M3	8.89	8.16	10.0	10.0	89	82	86	8	30.0	45-120
Pyrene	UG/M3	9.65	9.07	10.0	10.0	96	91	94	5	30.0	55-120
Acenaphthylene	UG/M3	9.73	9.13	10.0	10.0	97	91	94	6	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	8.69	8.25	10.0	10.0	87	82	85	6	30.0	34-118
Benzo(b)fluoranthene	UG/M3	8.92	8.25	10.0	10.0	89	82	86	8	30.0	46-116
Benzo(k)fluoranthene	UG/M3	8.82	8.10	10.0	10.0	88	81	85	8	30.0	49-115
Phenanthrene	UG/M3	9.78	9.21	10.0	10.0	98	92	95	6	30.0	60-120
Fluorene	UG/M3	9.84	9.26	10.0	10.0	98	93	96	5	30.0	59-121
Fluoranthene	UG/M3	9.65	8.97	10.0	10.0	96	90	93	6	30.0	55-119
Benzo(ghi)perylene	UG/M3	8.93	8.33	10.0	10.0	89	83	86	7	30.0	29-123

SDG: A88962

Client Sample ID: Method Blank
Lab Sample ID: A8B1996403

Matrix Spike Blank
A8B1996401

Matrix Spike Blk Dup
A8B1996402

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.0	17.8	20.0	20.0	90	89	90	1	30.0	63-119
Toluene	UG/M3	18.3	18.4	20.0	20.0	92	92	92	0	30.0	70-126
Ethylbenzene	UG/M3	18.1	18.4	20.0	20.0	91	92	92	1	30.0	72-129
m/p-Xylenes	UG/M3	36.0	36.6	40.0	40.0	90	92	91	2	30.0	72-128
o-Xylene	UG/M3	17.7	18.0	20.0	20.0	89	90	90	1	30.0	71-126

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-8966 A8896603	EAST ANASORB A08-9064 A8906403	EAST ANASORB A08-9101 A8910101	EAST ANASORB A08-9172 A8917203	EAST ANASORB A08-9223 A8922301
Sample Date	07/24/2008 16:00	07/25/2008 15:00	07/28/2008 16:30	07/29/2008 16:00	07/30/2008 16:00
Received Date	07/25/2008 09:15	07/28/2008 08:40	07/29/2008 09:10	07/30/2008 09:15	07/31/2008 09:05
Extraction Date	07/28/2008 13:58	07/29/2008 13:08	07/29/2008 16:27	08/02/2008 16:38	08/02/2008 17:18
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	1.0	1.0
Sample wt/vol % Dry	1.084 LITERS	1.059 LITERS	1.462 LITERS	1.182 LITERS	1.178 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-8966 A8896604	EAST XAD A08-9064 A8906604	EAST XAD A08-9101 A8910102	EAST XAD A08-9172 A8917204	EAST XAD A08-9223 A8922302
Sample Date	07/24/2008 16:00	07/25/2008 15:00	07/28/2008 16:30	07/29/2008 16:00	07/30/2008 16:00
Received Date	07/25/2008 09:15	07/28/2008 08:40	07/29/2008 09:10	07/30/2008 09:15	07/31/2008 09:05
Extraction Date	07/26/2008 03:57	07/30/2008 13:08	07/30/2008 19:30	07/31/2008 20:08	08/02/2008 10:24
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.162	1.032	1.23	1.18	1.168
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-8966 A8896601	NORTH ANASORB A08-9064 A8906401	NORTH ANASORB A08-9096 A8909601	NORTH ANASORB A08-9172 A8917201	NORTH ANASORB A08-9221 A8922101
Sample Date	07/24/2008 16:00	07/25/2008 15:00	07/28/2008 16:30	07/29/2008 16:00	07/30/2008 16:00
Received Date	07/25/2008 09:15	07/28/2008 08:40	07/29/2008 09:10	07/30/2008 09:15	07/31/2008 09:05
Extraction Date	07/28/2008 13:39	07/29/2008 12:48	07/29/2008 16:07	08/02/2008 16:18	08/02/2008 15:38
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	1.0	1.0
Dilution Factor	1.146 LITERS	1.038 LITERS	1.167 LITERS	1.13 LITERS	1.117 LITERS
Sample wt/vol % Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-8966 A8896602	NORTH XAD A08-9064 A8906402	NORTH XAD A08-9096 A8909602	NORTH XAD A08-9172 A8917202	NORTH XAD A08-9221 A8922102
Sample Date	07/24/2008 16:00	07/25/2008 15:00	07/28/2008 16:30	07/29/2008 16:00	07/30/2008 16:00
Received Date	07/25/2008 09:15	07/28/2008 08:40	07/29/2008 09:10	07/30/2008 09:15	07/31/2008 09:05
Extraction Date	07/26/2008 02:47	07/30/2008 12:33	07/30/2008 11:58	07/31/2008 19:33	07/31/2008 17:49
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.144	1.1	1.347	1.257	1.25
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-8962 A8896201	SOUTH ANASORB A08-9063 A8906301	SOUTH ANASORB A08-9101 A8910105	SOUTH ANASORB A08-9170 A8917001
Sample Date	07/24/2008 16:00	07/25/2008 15:00	07/28/2008 16:30	07/29/2008 16:00
Received Date	07/25/2008 09:15	07/28/2008 08:40	07/29/2008 09:10	07/30/2008 09:15
Extraction Date	07/28/2008 09:38	07/29/2008 12:28	07/29/2008 17:07	08/02/2008 15:18
Extraction HT Met?	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	1.0
Sample wt/vol % Dry	1.001 LITERS	1.062 LITERS	1.329 LITERS	1.371 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-9223 A8922305	SOUTH XAD A08-8962 A8896202	SOUTH XAD A08-9101 A8910106	SOUTH XAD A08-9170 A8917002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/30/2008 16:00 07/31/2008 09:05 08/02/2008 18:18 - YES AIR 1.0 1.359 LITERS	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-9223 A8922305	SOUTH XAD A08-8962 A8896202	SOUTH XAD A08-9101 A8910106	SOUTH XAD A08-9170 A8917002
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/24/2008 16:00 07/25/2008 09:15 07/26/2008 01:38 - YES AIR 1.0 1.25 LITERS	07/28/2008 16:30 07/29/2008 09:10 07/30/2008 20:40 - YES AIR 1.0 1.363 LITERS	07/29/2008 16:00 07/30/2008 09:15 07/31/2008 17:14 - YES AIR 1.0 1.292 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-9223 A8922306	WEST ANASORB A08-8966 A8896605	WEST ANASORB A08-9064 A8906405	WEST ANASORB A08-9101 A8910103	WEST ANASORB A08-9172 A8917205
Sample Date	07/24/2008 16:00	07/24/2008 16:00	07/25/2008 15:00	07/28/2008 16:30	07/29/2008 16:00
Received Date	07/25/2008 09:15	07/25/2008 09:15	07/28/2008 08:40	07/29/2008 09:10	07/30/2008 09:15
Extraction Date	NA	07/28/2008 14:18	07/29/2008 13:28	07/29/2008 16:47	08/02/2008 16:58
Extraction HT Met?		YES	YES	YES	YES
Analytical HT Met?		AIR	AIR	AIR	AIR
Sample Matrix		2.0	2.0	2.0	1.0
Dilution Factor		2.075	1.186	1.391	1.325
Sample wt/vol % Dry		LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-9223 A8922306	WEST ANASORB A08-8966 A8896605	WEST ANASORB A08-9064 A8906405	WEST ANASORB A08-9101 A8910103	WEST ANASORB A08-9172 A8917205
Sample Date	07/30/2008 16:00				
Received Date	07/31/2008 09:05				
Extraction Date	08/02/2008 11:34				
Extraction HT Met?	YES				
Analytical HT Met?	AIR				
Sample Matrix	1.0				
Dilution Factor	1.288				
Sample wt/vol % Dry	LITERS				

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-9223 A8922303	WEST XAD A08-8966 A8896606	WEST XAD A08-9064 A8906406	WEST XAD A08-9101 A8910104	WEST XAD A08-9172 A8917206
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/30/2008 16:00 07/31/2008 09:05 08/02/2008 17:58 - YES AIR 1.0 1.321 LITERS	NA	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-9223 A8922303	WEST XAD A08-8966 A8896606	WEST XAD A08-9064 A8906406	WEST XAD A08-9101 A8910104	WEST XAD A08-9172 A8917206
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/24/2008 16:00 07/25/2008 09:15 07/26/2008 05:06 - YES AIR 1.0 1.344 LITERS	07/25/2008 15:00 07/28/2008 08:40 07/30/2008 13:42 - YES AIR 1.0 1.834 LITERS	07/28/2008 16:30 07/29/2008 09:10 07/30/2008 20:05 - YES AIR 1.0 1.233 LITERS	07/29/2008 16:00 07/30/2008 09:15 07/31/2008 20:43 - YES AIR 1.0 1.156 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST XAD A08-9223 A8922304			
Sample Date	07/30/2008 16:00			
Received Date	07/31/2008 09:05			
Extraction Date	08/02/2008 10:59			
Analysis Date	-			
Extraction HT Met?	YES			
Analytical HT Met?	AIR			
Sample Matrix	1.0			
Dilution Factor	1.163			
Sample wt/vol	LITERS			
% Dry				

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-8966 A8B1945901	Matrix Spike Blank A08-8962 A8B1962001	Matrix Spike Blank A08-9096 A8B1965801	Matrix Spike Blank A08-9101 A8B1966101	Matrix Spike Blank A08-9223 A8B1982101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA 	07/28/2008 08:39 - - AIR 1.0 0.5 LITERS	07/29/2008 11:48 - - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-8966 A8B1945901	Matrix Spike Blank A08-8962 A8B1962001	Matrix Spike Blank A08-9096 A8B1965801	Matrix Spike Blank A08-9101 A8B1966101	Matrix Spike Blank A08-9223 A8B1982101
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/25/2008 10:33 - - AIR 1.0 1.0 LITERS	NA	NA	07/30/2008 09:39 - - AIR 1.0 1.0 LITERS	07/31/2008 15:30 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9170 A8B1996401	Matrix Spike Blk Dup A08-8966 A8B1945902	Matrix Spike Blk Dup A08-8966 A8B1962002	Matrix Spike Blk Dup A08-9101 A8B1965802	Matrix Spike Blk Dup A08-9096 A8B1966102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/02/2008 14:37 - - AIR 1.0 0.5 LITERS	NA	07/28/2008 08:59 - - AIR 1.0 0.5 LITERS	07/29/2008 12:08 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9170 A8B1996401	Matrix Spike Blk Dup A08-8966 A8B1945902	Matrix Spike Blk Dup A08-8966 A8B1962002	Matrix Spike Blk Dup A08-9101 A8B1965802	Matrix Spike Blk Dup A08-9096 A8B1966102
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/25/2008 11:07 - - AIR 1.0 1.0 LITERS	NA	NA	07/30/2008 10:13 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9170 A8B1982102	Matrix Spike Blk Dup A08-9170 A8B1996402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/02/2008 14:57 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9170 A8B1982102	Matrix Spike Blk Dup A08-9170 A8B1996402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/31/2008 16:05 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8962 A8B1945903	Method Blank A08-8962 A8B1962003	Method Blank A08-9064 A8B1965803	Method Blank A08-9101 A8B1966103	Method Blank A08-9223 A8B1982103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/28/2008 09:18 - - AIR 1.0 0.5 LITERS	07/29/2008 11:28 - - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank A08-8962 A8B1945903	Method Blank A08-8962 A8B1962003	Method Blank A08-9064 A8B1965803	Method Blank A08-9101 A8B1966103	Method Blank A08-9223 A8B1982103
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	07/25/2008 12:53 - - AIR 1.0 1.0 LITERS	NA	NA	07/30/2008 10:48 - - AIR 1.0 1.0 LITERS	07/31/2008 16:39 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID	Method Blank			
Job No & Lab Sample ID	A08-9170 A8B1996403			
Sample Date	08/02/2008 14:17			
Received Date	-			
Extraction Date	-			
Analysis Date	AIR			
Extraction HT Met?	1.0			
Analytical HT Met?	0.5			
Sample Matrix	LITERS			
Dilution Factor				
Sample wt/vol				
% Dry				



Chain of Custody Record

TAL-4142 (0907)

Client: **Haley Aldrich** Address: **4912 S. Hohman** City: **Hammond** State: **IN** Zip Code: **46303**
 Project Name and Location (State): **Hammond MGP, IN**
 Contract/Purchase Order/Quote No.: **12758-040**
 Request Manager: **Dave Demas** Date: **7/30/08** Chain of Custody Number: **388609**
 Telephone Number (Area Code)/Fax Number: **317-688-4543** Lab Number: _____ Page _____ of _____
 Site Contact: **J. Bellamy** LHA Contact: **C. Fox**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb	7/30/08	16:00	X					X							Top of box (film) M.I. NILES
North Xad															1117 2,069 546
East Anasorb															1256 2,35
East Xad															1178 2,182
West Anasorb															1168 2,163
West Xad															1321 2,447
South Anasorb															1163 2,154
South Xad															1209 2,214
															1886 2,285

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months _____
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See Comments**
 1. Relinquished By: **Jennifer Bellamy** Date: **7-30-08** Time: _____
 2. Relinquished by: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: **Ben** Date: **7/31/08** Time: **0905**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **# Indicates Priority Samples w/ 1-3 T.A.T. All others T.A.T. 3-5^oc**
 DISTRIBUTION: WHITE - Returned to Client with Report; CANAFY - Stays with the Sample; PINK - Field Copy



Chain of Custody Record

TAL-4142 (0907)

Client: **Haley + Aldrich** Project Manager: **David Demas** Date: **7/29/08** Chain of Custody Number: **388606**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Bellamy** Lab Contact: **C. FOX** Page: _____ of _____
 Project Name and Location (State): **Hammond MGP, IN** Carrier/Maybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aqueous	Sol.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH			
North Anasorb	7-29-08	11:40	X							X					Total Flow Rate (L/min) minutes 1130 2.092 546
North Xad															1257 2.387
East Anasorb															1182 2.188
East Xad															1186 2.185
West Anasorb															1325 2.452
West Xad															1156 2.140
South Anasorb															1371 2.538
South Xad															1892 2.392

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See comment**
 1. Relinquished By: **Jerry Bellamy** Date: **7-29-08** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: **Bob** Date: **7/30/08** Time: **0915**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates Priority Samples w/ 1-3 T.A.T. All others T.A.T. 4.0°C**
 DISTRIBUTION: WHITE - Returned to Client with Report. CANARY - Slays with the Sample. PINK - Field Copy

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R

Chain of Custody Record

TAL-4142 (0907)

Client: Halley + Aldrich Project Manager: David Demas Date: 7-28-08 Chain of Custody Number: 388616

Address: 49 W.S. Hohman Telephone Number (Area Code)/Fax Number: 317-603-4843 Lab Number: _____

City: Hammond State: IN Zip Code: 46323 Site Contact: _____ Lab Contact: _____ Page: _____ of _____

Project Name and Location (State): Hammond mbp, IN Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc
North Anasorb 4	7-28-08	16:30	X										Total Fluoride (µm) minutes 1167 9.047 570 1347 2364 1412 2565 1346 2158 1391 2.441 1388 2.163 1399 2.352 1403 2.391
North Xad													
East Anasorb													
East Xad													
West Anasorb													
West Xad													
South Anasorb													
South Xad													

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other see comments

Sample Disposal:
 Return To Client Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

1. Relinquished By: Jerry Bullen Date: 7-28-08 Time: 17:00
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Andrew Szymanski Date: 7-29-08 Time: 0910
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: * Indicates Priority samples w 1-3 T.A.T. All others T.A.T.

DISTRIBUTION: WHITE - Returned to Client with Report; CANOPY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4142 (0907)

Client: **Haley + Aldrich** Project Manager: **David Demas** Date: **7/28/08** Chain of Custody Number: **388615**

Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-407-7670** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Bellamy** Lab Contact: **C. Fox** Page: **1** of **1**

Project Name and Location (State): **Hammond MGP, IN** Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: **18758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Special Instructions/ Conditions of Receipt			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc	HON	
North Anasorb	7-25-08	15:00	X							X					Total Flow (L) (For 2.1 min) minutes 1038 2.163 480
North Xad															1106 2.292
East Anasorb															1059 2.806
East Xad															1032 2.151
West Anasorb															1186 2.470
West Xad															1834 3.521
South Anasorb															1502 2.212
South Xad															981 2.1043
Outside Fence Anasorb															1001 2.685

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **As soon as possible**

QC Requirements (Specify): _____

1. Relinquished By: **Joseph Bellamy** Date: **7-25-08 15:30** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **Bill** Date: **7/28/08** Time: **0840**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates Priority Samples w/3 T.A.T. All others T.A.T. AMBIENT**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



Chain of Custody Record

TAL-4142 (0907)

Client: Haley + Aldrich Project Manager: David Demas Date: 7/24/08 Chain of Custody Number: 388620
 Address: 4912 S. Hickman Telephone Number (Area Code)/Fax Number: 317-407-7670 Lab Number: _____
 City: Hammond State: IN Zip Code: 46323 Site Contact: S. Bellamy Lab Contact: C. FOX Page: _____ of _____
 Project Name and Location (State): Hammond m6P, IN Carrier/Maybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Sol	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc	HNO3
North Anasorb North Xad	7-24-08	16:00	X			X							X YOC X KOG Total Flow Fig 2 (1 min) minutes 1140 2.193 1144 9.119 1024 2.007 1162 2.151 2075 3.843 1344 2.488 1510 2.495 1850 2.315	540
East Anasorb														
East Xad														
West Anasorb														
West Xad														
South Anasorb														
South Xad														

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months longer than 1 month

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comment

QC Requirements (Specify)

1. Reinquished By: Jennifer Bellamy Date: 7-24-08 Time: 16:30
 2. Reinquished By: _____ Date: _____ Time: _____
 3. Reinquished By: _____ Date: _____ Time: _____

1. Received By: Ben Date: 7/25/08 Time: 0915
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: * Indicates Priority samples w/ 3 T.A.T. All others T.A.T. 3-5oz
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy



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ANALYTICAL REPORT

Job#: A08-9278, A08-9279, A08-9353, A08-9355, A08-9366, A08-9367,
A08-9571, A08-9573, A08-9632, A08-9634, A08-9735, A08-9736,
A08-9769, A08-9770, A08-9831, A08-9832, A08-9895, A08-9898,
A08-9960, A08-9962, A08-A036, A08-A037, A08-A064, A08-A065

Project#: NY3A9043

SDG#: A89278

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

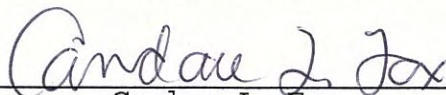
RECEIVED

SEP 03 2008

HALEY AND ALDRICH

David Demas
H&A
12220 N Meridian St., Ste 165
Carmel, IN 46032

TestAmerica Laboratories Inc.



Candace L. Fox
Project Manager

08/27/2008



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A8935507	DUP.SOUTH ANASORB	AIR	08/01/2008	15:30	08/04/2008	10:00
A8927903	EAST ANASORB	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935501	EAST ANASORB	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936703	EAST ANASORB	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957303	EAST ANASORB	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963403	EAST ANASORB	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973603	EAST ANASORB	AIR	08/08/2008	14:30	08/11/2008	09:00
A8976903	EAST ANASORB	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983103	EAST ANASORB	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989503	EAST ANASORB	AIR	08/13/2008	15:09	08/14/2008	09:00
A8996003	EAST ANASORB	AIR	08/14/2008	15:10	08/15/2008	09:00
A8A06503	EAST ANASORB	AIR	08/18/2008	15:00	08/19/2008	09:00
A8927904	EAST XAD	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935502	EAST XAD	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936704	EAST XAD	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957304	EAST XAD	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963404	EAST XAD	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973604	EAST XAD	AIR	08/08/2008	14:30	08/11/2008	09:00
A8976904	EAST XAD	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983104	EAST XAD	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989504	EAST XAD	AIR	08/13/2008	15:09	08/14/2008	09:00
A8996004	EAST XAD	AIR	08/14/2008	15:10	08/15/2008	09:00
A8A03704	EAST XAD	AIR	08/15/2008	15:00	08/18/2008	08:45
A8A06504	EAST XAD	AIR	08/18/2008	15:00	08/19/2008	09:00
A8927901	NORTH ANASORB	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935301	NORTH ANASORB	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936701	NORTH ANASORB	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957301	NORTH ANASORB	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963401	NORTH ANASORB	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973601	NORTH ANASORB	AIR	08/08/2008	14:30	08/11/2008	09:00
A8976901	NORTH ANASORB	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983101	NORTH ANASORB	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989501	NORTH ANASORB	AIR	08/13/2008	15:08	08/14/2008	09:00
A8996001	NORTH ANASORB	AIR	08/14/2008	15:09	08/15/2008	09:00
A8A03701	NORTH ANASORB	AIR	08/15/2008	15:00	08/18/2008	08:45
A8A06501	NORTH ANASORB	AIR	08/18/2008	15:00	08/19/2008	09:00
A8927902	NORTH XAD	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935302	NORTH XAD	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936702	NORTH XAD	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957302	NORTH XAD	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963402	NORTH XAD	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973602	NORTH XAD	AIR	08/08/2008	14:30	08/11/2008	09:00

LAB SAMPLE ID	CLIENT SAMPLE ID	MATRIX	SAMPLED		RECEIVED	
			DATE	TIME	DATE	TIME
A8976902	NORTH XAD	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983102	NORTH XAD	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989502	NORTH XAD	AIR	08/13/2008	15:08	08/14/2008	09:00
A8996002	NORTH XAD	AIR	08/14/2008	15:09	08/15/2008	09:00
A8A03702	NORTH XAD	AIR	08/15/2008	15:00	08/18/2008	08:45
A8A06502	NORTH XAD	AIR	08/18/2008	15:00	08/19/2008	09:00
A8989803	NORTHWEST ANASORB	AIR	08/13/2008	15:08	08/14/2008	09:00
A8989804	NORTHWEST XAD	AIR	08/13/2008	15:08	08/14/2008	09:00
A8927801	SOUTH ANASORB	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935505	SOUTH ANASORB	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936601	SOUTH ANASORB	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957101	SOUTH ANASORB	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963201	SOUTH ANASORB	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973501	SOUTH ANASORB	AIR	08/08/2008	14:30	08/11/2008	09:00
A8977001	SOUTH ANASORB	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983201	SOUTH ANASORB	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989801	SOUTH ANASORB	AIR	08/13/2008	15:05	08/14/2008	09:00
A8996201	SOUTH ANASORB	AIR	08/14/2008	15:08	08/15/2008	09:00
A8A03601	SOUTH ANASORB	AIR	08/15/2008	15:00	08/18/2008	08:45
A8A06401	SOUTH ANASORB	AIR	08/18/2008	15:00	08/19/2008	09:00
A8973607	SOUTH ANASORB DUP	AIR	08/08/2008	14:30	08/11/2008	09:00
A8A03707	SOUTH ANASORB DUP	AIR	08/15/2008	15:00	08/18/2008	08:45
A8927802	SOUTH XAD	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935506	SOUTH XAD	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936602	SOUTH XAD	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957102	SOUTH XAD	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963202	SOUTH XAD	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973502	SOUTH XAD	AIR	08/08/2008	14:30	08/11/2008	09:00
A8977002	SOUTH XAD	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983202	SOUTH XAD	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989802	SOUTH XAD	AIR	08/13/2008	15:05	08/14/2008	09:00
A8996202	SOUTH XAD	AIR	08/14/2008	15:08	08/15/2008	09:00
A8A03602	SOUTH XAD	AIR	08/15/2008	15:00	08/18/2008	08:45
A8A06402	SOUTH XAD	AIR	08/18/2008	15:00	08/19/2008	09:00
A8927905	WEST ANASORB	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935503	WEST ANASORB	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936705	WEST ANASORB	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957305	WEST ANASORB	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963405	WEST ANASORB	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973605	WEST ANASORB	AIR	08/08/2008	14:30	08/11/2008	09:00
A8976905	WEST ANASORB	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983105	WEST ANASORB	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989505	WEST ANASORB	AIR	08/13/2008	15:07	08/14/2008	09:00
A8996005	WEST ANASORB	AIR	08/14/2008	15:09	08/15/2008	09:00
A8A03705	WEST ANASORB	AIR	08/15/2008	15:00	08/18/2008	08:45

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8A06505	WEST ANASORB	AIR	08/18/2008	15:00	08/19/2008	09:00
A8927906	WEST XAD	AIR	07/31/2008	00:00	08/01/2008	09:20
A8935504	WEST XAD	AIR	08/01/2008	15:30	08/04/2008	10:00
A8936706	WEST XAD	AIR	08/02/2008	14:30	08/04/2008	09:30
A8957306	WEST XAD	AIR	08/06/2008	14:45	08/07/2008	09:15
A8963406	WEST XAD	AIR	08/07/2008	15:00	08/08/2008	09:15
A8973606	WEST XAD	AIR	08/08/2008	14:30	08/11/2008	09:00
A8976906	WEST XAD	AIR	08/11/2008	15:30	08/12/2008	09:00
A8983106	WEST XAD	AIR	08/12/2008	15:00	08/13/2008	09:00
A8989506	WEST XAD	AIR	08/13/2008	15:07	08/14/2008	09:00
A8996006	WEST XAD	AIR	08/14/2008	15:09	08/15/2008	09:00
A8A03706	WEST XAD	AIR	08/15/2008	15:00	08/18/2008	08:45
A8A06506	WEST XAD	AIR	08/18/2008	15:00	08/19/2008	09:00

METHODS SUMMARY

Job#: A08-9278, A08-9279, A08-9353, A08-9355, A08-9366, A08-9367,
A08-9571, A08-9573, A08-9632, A08-9634, A08-9735, A08-9736,
A08-9769, A08-9770, A08-9831, A08-9832, A08-9895, A08-9898,
A08-9960, A08-9962, A08-A036, A08-A037, A08-A064, A08-A065

Project#: NY3A9043
SDG#: A89278
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A08-9278, A08-9279, A08-9353, A08-9355, A08-9366, A08-9367,
A08-9571, A08-9573, A08-9632, A08-9634, A08-9735, A08-9736,
A08-9769, A08-9770, A08-9831, A08-9832, A08-9895, A08-9898,
A08-9960, A08-9962, A08-A036, A08-A037, A08-A064, A08-A065

Project#: NY3A9043
SDG#: A89278
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-9278

Sample Cooler(s) were received at the following temperature(s); 5.6 °C
All samples were received in good condition.

A08-9279

Sample Cooler(s) were received at the following temperature(s); 5.6 °C
All samples were received in good condition.

A08-9353

Sample Cooler(s) were received at the following temperature(s); 22.6 °C
Samples were received at a temperature of 22.6° C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, all detected concentrations and detection limits should be considered estimated values.

A08-9355

Sample Cooler(s) were received at the following temperature(s); 22.6 °C
Samples were received at a temperature of 22.6° C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, all detected concentrations and detection limits should be considered estimated values.

A08-9366

Sample Cooler(s) were received at the following temperature(s); 22.4 °C
Samples were received at a temperature of 22.4° C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, all detected concentrations and detection limits should be considered estimated values.

A08-9367

Sample Cooler(s) were received at the following temperature(s); 22.4 °C
Samples were received at a temperature of 22.4° C. These samples were analyzed as per instructions from the client. Based on EPA data validation guidelines, all detected concentrations and detection limits should be considered estimated values.

A08-9571

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-9573

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-9632

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-9634

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-9735

Sample Cooler(s) were received at the following temperature(s); 18.6 °C
All samples were received in good condition.

A08-9736

Sample Cooler(s) were received at the following temperature(s); 18.6 °C
All samples were received in good condition.

A08-9769

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-9770

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-9831

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-9832

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-9895

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-9898

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-9960

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-9962

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A036

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-A037

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
Sample East Anasorb was listed on COC, but was not received.

A08-A064

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-A065

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

GC Volatile Data

For method 5515, Benzo(k)fluoranthene exhibited positive bias and a % difference result greater than 15% in the initial continuing calibration verification. No corrective action was taken, all field samples are non-detect for this analyte.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
NORTH ANASORB	A8935301	1501	2.00	013
EAST ANASORB	A8935501	1501	2.00	013
WEST ANASORB	A8935503	1501	2.00	013
SOUTH ANASORB	A8935505	1501	2.00	013
DUP.SOUTH ANASORB	A8935507	1501	2.00	013
SOUTH ANASORB	A8936601	1501	2.00	013
NORTH ANASORB	A8936701	1501	2.00	013
EAST ANASORB	A8936703	1501	2.00	013
WEST ANASORB	A8936705	1501	2.00	013
SOUTH ANASORB	A8957101	1501	2.00	013
NORTH ANASORB	A8957301	1501	2.00	013
EAST ANASORB	A8957303	1501	2.00	013
WEST ANASORB	A8957305	1501	2.00	013
SOUTH ANASORB	A8963201	1501	2.00	013
NORTH ANASORB	A8963401	1501	2.00	013
EAST ANASORB	A8963403	1501	2.00	013
WEST ANASORB	A8963405	1501	2.00	013
SOUTH ANASORB	A8973501	1501	2.00	013
NORTH ANASORB	A8973601	1501	2.00	013
EAST ANASORB	A8973603	1501	2.00	013
WEST ANASORB	A8973605	1501	2.00	013
SOUTH ANASORB DUP	A8973607	1501	2.00	013
NORTH ANASORB	A8976901	1501	2.00	013
EAST ANASORB	A8976903	1501	2.00	013
WEST ANASORB	A8976905	1501	2.00	013
SOUTH ANASORB	A8977001	1501	2.00	013
NORTH ANASORB	A8983101	1501	2.00	013
EAST ANASORB	A8983103	1501	2.00	013
WEST ANASORB	A8983105	1501	2.00	013
SOUTH ANASORB	A8983201	1501	2.00	013
NORTH ANASORB	A8989501	1501	2.00	013
EAST ANASORB	A8989503	1501	2.00	013
WEST ANASORB	A8989505	1501	2.00	013
SOUTH ANASORB	A8989801	1501	2.00	013
NORTHWEST ANASORB	A8989803	1501	2.00	013
NORTH ANASORB	A8996001	1501	2.00	013
EAST ANASORB	A8996003	1501	2.00	013
WEST ANASORB	A8996005	1501	2.00	013
SOUTH ANASORB	A8996201	1501	2.00	013
SOUTH ANASORB	A8A03601	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
NORTH ANASORB	A8A03701	1501	2.00	013
WEST ANASORB	A8A03705	1501	2.00	013
SOUTH ANASORB DUP	A8A03707	1501	2.00	013
SOUTH ANASORB	A8A06401	1501	2.00	013
NORTH ANASORB	A8A06501	1501	2.00	013
EAST ANASORB	A8A06503	1501	2.00	013
WEST ANASORB	A8A06505	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



THE LEADER IN ENVIRONMENTAL TESTING

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

ND or U Indicates compound was analyzed for, but not detected.

- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- † Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.

- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

Date: 08/27/2008
Time: 12:50:54

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUP. SOUTH ANASORB A08-9355 08/01/2008	EAST ANASORB A08-9279 07/31/2008	A8927903	EAST ANASORB A08-9355 08/01/2008	A8935501	EAST ANASORB A08-9367 08/02/2008	A8936703
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Benzene	UG/M3	ND	3.7	ND	2.0	ND	4.0	ND
Ethylbenzene	UG/M3	ND	3.7	ND	2.0	ND	4.0	ND
m/p-Xylenes	UG/M3	ND	3.7	ND	2.0	ND	4.0	ND
o-Xylene	UG/M3	ND	3.7	ND	2.0	ND	4.0	ND
Toluene	UG/M3	ND	3.7	ND	2.0	ND	4.0	ND

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-9573 08/06/2008	A8957303	EAST ANASORB A08-9634 08/07/2008	A8963403	EAST ANASORB A08-9736 08/08/2008	A8973603	EAST ANASORB A08-9769 08/11/2008	A8976903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.9	ND	3.9	ND	3.9	ND	3.7
Ethylbenzene	UG/M3	ND	3.9	ND	3.9	ND	3.9	ND	3.7
m/p-Xylenes	UG/M3	ND	3.9	ND	3.9	ND	3.9	ND	3.7
o-Xylene	UG/M3	ND	3.9	ND	3.9	ND	3.9	ND	3.7
Toluene	UG/M3	ND	3.9	ND	3.9	ND	3.9	ND	3.7

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-9831 08/12/2008	A8983103	EAST ANASORB A08-9895 08/13/2008	A8989503	EAST ANASORB A08-9960 08/14/2008	A8996003	EAST ANASORB A08-A065 08/18/2008	A8A06503
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.0	ND	4.0	ND	5.9	ND	6.1
Ethylbenzene	UG/M3	ND	4.0	ND	4.0	ND	5.9	ND	6.1
m/p-Xylenes	UG/M3	ND	4.0	ND	4.0	ND	5.9	ND	6.1
o-Xylene	UG/M3	ND	4.0	ND	4.0	ND	5.9	ND	6.1
Toluene	UG/M3	ND	4.0	ND	4.0	ND	5.9	ND	6.1

Date: 08/27/2008
Time: 12:50:54

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-9279 07/31/2008	A8927901	NORTH ANASORB A08-9353 08/01/2008	A8935301	NORTH ANASORB A08-9367 08/02/2008	A8936701	NORTH ANASORB A08-9573 08/06/2008	A8957301
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	2.0	ND	3.9	ND	4.0	ND	4.1
Ethylbenzene	UG/M3	ND	2.0	ND	3.9	ND	4.0	ND	4.1
m/p-Xylenes	UG/M3	ND	2.0	ND	3.9	ND	4.0	ND	4.1
o-Xylene	UG/M3	ND	2.0	ND	3.9	ND	4.0	ND	4.1
Toluene	UG/M3	ND	2.0	ND	3.9	ND	4.0	ND	4.1

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-9634 08/07/2008	A8963401	NORTH ANASORB A08-9736 08/08/2008	A8973601	NORTH ANASORB A08-9769 08/11/2008	A8976901	NORTH ANASORB A08-9831 08/12/2008	A8983101
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.1	ND	4.2	ND	2.4	ND	3.8
Ethylbenzene	UG/M3	ND	4.1	ND	4.2	ND	2.4	ND	3.8
m/p-Xylenes	UG/M3	ND	4.1	ND	4.2	ND	2.4	ND	3.8
o-Xylene	UG/M3	ND	4.1	ND	4.2	ND	2.4	ND	3.8
Toluene	UG/M3	ND	4.1	ND	4.2	ND	2.4	ND	3.8

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-9895 08/13/2008	A8989501	NORTH ANASORB A08-9960 08/14/2008	A8996001	NORTH ANASORB A08-A037 08/15/2008	A8A03701	NORTH ANASORB A08-A065 08/18/2008	A8A06501
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.7	ND	5.8	ND	6.0	ND	6.0
Ethylbenzene	UG/M3	ND	3.7	ND	5.8	ND	6.0	ND	6.0
m/p-Xylenes	UG/M3	ND	3.7	ND	5.8	ND	6.0	ND	6.0
o-Xylene	UG/M3	ND	3.7	ND	5.8	ND	6.0	ND	6.0
Toluene	UG/M3	ND	3.7	ND	5.8	ND	6.0	ND	6.0

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Client ID Job No Sample Date	Lab ID	NORTHWEST ANASORB A08-9898 08/13/2008	A8989803	SOUTH ANASORB A08-9278 07/31/2008	A8927801	SOUTH ANASORB A08-9355 08/01/2008	A8935505	SOUTH ANASORB A08-9366 08/02/2008	A8936601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	9.9	3.7	ND	1.6	ND	3.3	ND	3.3
Ethylbenzene	UG/M3	ND	3.7	ND	1.6	ND	3.3	ND	3.3
m/p-Xylenes	UG/M3	ND	3.7	ND	1.6	ND	3.3	ND	3.3
o-Xylene	UG/M3	ND	3.7	ND	1.6	ND	3.3	ND	3.3
Toluene	UG/M3	ND	3.7	ND	1.6	ND	3.3	ND	3.3

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-9571 08/06/2008	A8957101	SOUTH ANASORB A08-9632 08/07/2008	A8963201	SOUTH ANASORB A08-9735 08/08/2008	A8973501	SOUTH ANASORB A08-9770 08/11/2008	A8977001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.3	ND	3.3	ND	3.3	ND	3.8
Ethylbenzene	UG/M3	ND	3.3	ND	3.3	ND	3.3	ND	3.8
m/p-Xylenes	UG/M3	ND	3.3	ND	3.3	ND	3.3	ND	3.8
o-Xylene	UG/M3	ND	3.3	ND	3.3	ND	3.3	ND	3.8
Toluene	UG/M3	ND	3.3	ND	3.3	ND	3.3	ND	3.8

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-9832 08/12/2008	A8983201	SOUTH ANASORB A08-9898 08/13/2008	A8989801	SOUTH ANASORB A08-9962 08/14/2008	A8996201	SOUTH ANASORB A08-A036 08/15/2008	A8A03601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.3	ND	3.4	ND	6.8	ND	5.7
Ethylbenzene	UG/M3	ND	3.3	ND	3.4	ND	6.8	ND	5.7
m/p-Xylenes	UG/M3	ND	3.3	ND	3.4	ND	6.8	ND	5.7
o-Xylene	UG/M3	ND	3.3	ND	3.4	ND	6.8	ND	5.7
Toluene	UG/M3	ND	3.3	ND	3.4	ND	6.8	ND	5.7

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Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-A064 08/18/2008	A8A06401	SOUTH ANASORB DUP A08-9736 08/08/2008	A8973607	SOUTH ANASORB DUP A08-A037 08/15/2008	A8A03707	WEST ANASORB A08-9279 07/31/2008	A8927905
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.8	ND	4.0	ND	4.9	ND	1.7
Ethylbenzene	UG/M3	ND	5.8	ND	4.0	ND	4.9	ND	1.7
m/p-Xylenes	UG/M3	ND	5.8	ND	4.0	ND	4.9	ND	1.7
o-Xylene	UG/M3	ND	5.8	ND	4.0	ND	4.9	ND	1.7
Toluene	UG/M3	ND	5.8	ND	4.0	ND	4.9	ND	1.7

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-9355 08/01/2008	A8935503	WEST ANASORB A08-9367 08/02/2008	A8936705	WEST ANASORB A08-9573 08/06/2008	A8957305	WEST ANASORB A08-9634 08/07/2008	A8963405
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.4	ND	3.4	ND	3.4	ND	3.4
Ethylbenzene	UG/M3	ND	3.4	ND	3.4	ND	3.4	ND	3.4
m/p-Xylenes	UG/M3	ND	3.4	ND	3.4	ND	3.4	ND	3.4
o-Xylene	UG/M3	ND	3.4	ND	3.4	ND	3.4	ND	3.4
Toluene	UG/M3	ND	3.4	ND	3.4	ND	3.4	ND	3.4

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-9736 08/08/2008	A8973605	WEST ANASORB A08-9769 08/11/2008	A8976905	WEST ANASORB A08-9831 08/12/2008	A8983105	WEST ANASORB A08-9895 08/13/2008	A8989505
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	3.4	ND	3.1	ND	3.4	ND	3.3
Ethylbenzene	UG/M3	ND	3.4	ND	3.1	ND	3.4	ND	3.3
m/p-Xylenes	UG/M3	ND	3.4	ND	3.1	ND	3.4	ND	3.3
o-Xylene	UG/M3	ND	3.4	ND	3.1	ND	3.4	ND	3.3
Toluene	UG/M3	ND	3.4	ND	3.1	ND	3.4	ND	3.3

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Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-9960 08/14/2008		A8996005		WEST ANASORB A08-A037 08/15/2008		A8A03705		WEST ANASORB A08-A065 08/18/2008		A8A06505	
		Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		UG/M3	6.1	ND	6.2	ND	6.2	ND	6.2	ND	6.2	NA	
Ethylbenzene		UG/M3	6.1	ND	6.2	ND	6.2	ND	6.2	ND	6.2	NA	
m/p-Xylenes		UG/M3	6.1	ND	6.2	ND	6.2	ND	6.2	ND	6.2	NA	
o-Xylene		UG/M3	6.1	ND	6.2	ND	6.2	ND	6.2	ND	6.2	NA	
Toluene		UG/M3	6.1	ND	6.2	ND	6.2	ND	6.2	ND	6.2	NA	

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Client ID Job No Sample Date	Lab ID	EAST XAD A08-9279 07/31/2008	A8927904	EAST XAD A08-9355 08/01/2008	A8935502	EAST XAD A08-9367 08/02/2008	A8936704	EAST XAD A08-9573 08/06/2008	A8957304
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Acenaphthylene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Anthracene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Benzo(a)anthracene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Benzo(a)pyrene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Benzo(b)fluoranthene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Benzo(ghi)perylene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Benzo(k)fluoranthene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Chrysene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Dibenzo(a,h)anthracene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Fluoranthene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Fluorene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Naphthalene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Phenanthrene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6
Pyrene	UG/M3	ND	4.7	ND	4.6	ND	4.6	ND	4.6

Client ID Job No Sample Date	Lab ID	EAST XAD A08-9634 08/07/2008	A8963404	EAST XAD A08-9736 08/08/2008	A8973604	EAST XAD A08-9769 08/11/2008	A8976904	EAST XAD A08-9831 08/12/2008	A8983104
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Acenaphthylene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Benzo(a)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Benzo(a)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Benzo(b)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Benzo(ghi)perylene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Benzo(k)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Chrysene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Dibenzo(a,h)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Fluorene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Naphthalene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Phenanthrene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6
Pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.3	ND	4.6

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Client ID Job No Sample Date	Lab ID	Units	EAST XAD A08-9895 08/13/2008	A8989504	EAST XAD A08-9960 08/14/2008	A8996004	EAST XAD A08-A037 08/15/2008	A8A03704	EAST XAD A08-A065 08/18/2008	A8A06504
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Acenaphthylene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Anthracene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Benzo(a)anthracene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Benzo(a)pyrene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Benzo(b)fluoranthene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Benzo(ghi)perylene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Benzo(k)fluoranthene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Chrysene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Dibenzo(a,h)anthracene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Fluoranthene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Fluorene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Naphthalene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Phenanthrene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0
Pyrene		UG/M3	ND	4.5	ND	4.5	ND	4.6	ND	5.0

Client ID Job No Sample Date	Lab ID	Units	NORTH XAD A08-9279 07/31/2008	A8927902	NORTH XAD A08-9353 08/01/2008	A8935302	NORTH XAD A08-9367 08/02/2008	A8936702	NORTH XAD A08-9573 08/06/2008	A8957302
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Acenaphthylene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Anthracene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Benzo(a)anthracene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Benzo(a)pyrene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Benzo(b)fluoranthene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Benzo(ghi)perylene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Benzo(k)fluoranthene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Chrysene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Dibenzo(a,h)anthracene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Fluoranthene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Fluorene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Naphthalene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Phenanthrene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5
Pyrene		UG/M3	ND	4.4	ND	4.5	ND	4.5	ND	4.5

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Acenaphthene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Acenaphthylene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Anthracene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Benzo(a)anthracene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Benzo(a)pyrene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Benzo(b)fluoranthene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Benzo(ghi)perylene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Benzo(k)fluoranthene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Chrysene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Dibenzo(a,h)anthracene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Fluoranthene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Fluorene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Indeno(1,2,3-cd)pyrene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Naphthalene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Phenanthrene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6
Pyrene		UG/M3	4.5	ND	4.6	ND	4.3	ND	4.6

Client ID Job No Sample Date	Lab ID	Units	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Acenaphthylene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Anthracene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Benzo(a)anthracene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Benzo(a)pyrene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Benzo(b)fluoranthene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Benzo(ghi)perylene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Benzo(k)fluoranthene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Chrysene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Dibenzo(a,h)anthracene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Fluoranthene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Fluorene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Indeno(1,2,3-cd)pyrene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Naphthalene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Phenanthrene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0
Pyrene		UG/M3	4.5	ND	4.5	ND	4.5	ND	5.0

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Client ID Job No Sample Date	Lab ID	Units	NORTHWEST XAD A08-9898 08/13/2008	Reporting Limit	Sample Value	A08-9278 07/31/2008	Reporting Limit	SOUTH XAD A08-9355 08/01/2008	Reporting Limit	Sample Value	A08-9366 08/02/2008	Reporting Limit
Acenaphthene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Acenaphthylene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Anthracene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Benzo(a)anthracene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Benzo(a)pyrene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Benzo(b)fluoranthene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Benzo(ghi)perylene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Benzo(k)fluoranthene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Chrysene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Dibenzo(a,h)anthracene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Fluoranthene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Fluorene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Indeno(1,2,3-cd)pyrene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Naphthalene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Phenanthrene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4
Pyrene		UG/M3	ND	5.0	ND	ND	4.3	ND	4.3	ND	ND	4.4

Client ID Job No Sample Date	Lab ID	Units	SOUTH XAD A08-9571 08/06/2008	Reporting Limit	Sample Value	A08-9632 08/07/2008	Reporting Limit	SOUTH XAD A08-9735 08/08/2008	Reporting Limit	Sample Value	A08-9770 08/11/2008	Reporting Limit
Acenaphthene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Acenaphthylene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Anthracene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Benzo(a)anthracene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Benzo(a)pyrene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Benzo(b)fluoranthene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Benzo(ghi)perylene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Benzo(k)fluoranthene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Chrysene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Dibenzo(a,h)anthracene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Fluoranthene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Fluorene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Naphthalene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Phenanthrene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1
Pyrene		UG/M3	ND	4.2	ND	ND	4.3	ND	4.4	ND	ND	4.1

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Client ID Job No Sample Date	Lab ID	Units	Sample Value	Reporting Limit	SOUTH XAD A08-9832 08/12/2008	SOUTH XAD A08-9898 08/13/2008	SOUTH XAD A08-9962 08/14/2008	SOUTH XAD A08-A036 08/15/2008	Reporting Limit
Acenaphthene		UG/M3	ND	4.3					4.3
Acenaphthylene		UG/M3	ND	4.3					4.3
Anthracene		UG/M3	ND	4.3					4.3
Benzo(a)anthracene		UG/M3	ND	4.3					4.3
Benzo(a)pyrene		UG/M3	ND	4.3					4.3
Benzo(b)fluoranthene		UG/M3	ND	4.3					4.3
Benzo(ghi)perylene		UG/M3	ND	4.3					4.3
Benzo(k)fluoranthene		UG/M3	ND	4.3					4.3
Chrysene		UG/M3	ND	4.3					4.3
Dibenzo(a,h)anthracene		UG/M3	ND	4.3					4.3
Fluoranthene		UG/M3	ND	4.3					4.3
Fluorene		UG/M3	ND	4.3					4.3
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.3					4.3
Naphthalene		UG/M3	ND	4.3					4.3
Phenanthrene		UG/M3	ND	4.3					4.3
Pyrene		UG/M3	ND	4.3					4.3

Client ID Job No Sample Date	Lab ID	Units	Sample Value	Reporting Limit	WEST XAD A08-9355 08/01/2008	WEST XAD A08-9279 07/31/2008	WEST XAD A08-9367 08/02/2008	Reporting Limit
Acenaphthene		UG/M3	ND	4.3				4.3
Acenaphthylene		UG/M3	ND	4.3				4.3
Anthracene		UG/M3	ND	4.3				4.3
Benzo(a)anthracene		UG/M3	ND	4.3				4.3
Benzo(a)pyrene		UG/M3	ND	4.3				4.3
Benzo(b)fluoranthene		UG/M3	ND	4.3				4.3
Benzo(ghi)perylene		UG/M3	ND	4.3				4.3
Benzo(k)fluoranthene		UG/M3	ND	4.3				4.3
Chrysene		UG/M3	ND	4.3				4.3
Dibenzo(a,h)anthracene		UG/M3	ND	4.3				4.3
Fluoranthene		UG/M3	ND	4.3				4.3
Fluorene		UG/M3	ND	4.3				4.3
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.3				4.3
Naphthalene		UG/M3	ND	4.3				4.3
Phenanthrene		UG/M3	ND	4.3				4.3
Pyrene		UG/M3	ND	4.3				4.3

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Client ID Job No Sample Date	Lab ID	WEST XAD A08-9573 08/06/2008	A8957306	WEST XAD A08-9634 08/07/2008	A8963406	WEST XAD A08-9736 08/08/2008	A8973606	WEST XAD A08-9769 08/11/2008	A8976906
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Acenaphthylene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Anthracene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Benzo(a)anthracene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Benzo(a)pyrene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Benzo(b)fluoranthene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Benzo(ghi)perylene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Benzo(k)fluoranthene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Chrysene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Dibenz(a,h)anthracene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Fluoranthene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Fluorene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Naphthalene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Phenanthrene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3
Pyrene	UG/M3	ND	4.8	ND	4.6	ND	4.6	ND	4.3

Client ID Job No Sample Date	Lab ID	WEST XAD A08-9831 08/12/2008	A8983106	WEST XAD A08-9895 08/13/2008	A8989506	WEST XAD A08-9960 08/14/2008	A8996006	WEST XAD A08-A037 08/15/2008	A8A03706
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Acenaphthylene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(a)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(a)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(b)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(ghi)perylene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Benzo(k)fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Chrysene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Dibenz(a,h)anthracene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Fluoranthene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Fluorene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Naphthalene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Phenanthrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6
Pyrene	UG/M3	ND	4.6	ND	4.6	ND	4.7	ND	4.6

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Client ID	Lab ID	WEST XAD A08-A065 08/18/2008	A8A06506	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.6	NA		NA		NA	
Acenaphthylene	UG/M3	ND	4.6	NA		NA		NA	
Anthracene	UG/M3	ND	4.6	NA		NA		NA	
Benzo(a)anthracene	UG/M3	ND	4.6	NA		NA		NA	
Benzo(a)pyrene	UG/M3	ND	4.6	NA		NA		NA	
Benzo(b)fluoranthene	UG/M3	ND	4.6	NA		NA		NA	
Benzo(ghi)perylene	UG/M3	ND	4.6	NA		NA		NA	
Benzo(k)fluoranthene	UG/M3	ND	4.6	NA		NA		NA	
Chrysene	UG/M3	ND	4.6	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/M3	ND	4.6	NA		NA		NA	
Fluoranthene	UG/M3	ND	4.6	NA		NA		NA	
Fluorene	UG/M3	ND	4.6	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.6	NA		NA		NA	
Naphthalene	UG/M3	ND	4.6	NA		NA		NA	
Phenanthrene	UG/M3	ND	4.6	NA		NA		NA	
Pyrene	UG/M3	ND	4.6	NA		NA		NA	

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NIOSH METHOD 1501 AROMATIC HYDROCARBONS

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Client ID Job No Sample Date	Lab ID	Method Blank A08-9278 A8B1996403		Method Blank A08-9634 A8B2028703		Method Blank A08-A037 A8B2076903		Method Blank A08-A065 A8B2112503	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		UG/M3	4.0	ND	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A08-9355 A8B2012203		Method Blank(VBLK_) A08-9735 A8B2051603		Method Blank(VBLK_) A08-9898 A8B2057503	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		UG/M3	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0
		UG/M3	4.0	ND	4.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank A08-9278	A8B2006203	Method Blank A08-9634	A8B2032503	Method Blank A08-9960	A8B2069303	Method Blank A08-A037	A8B2087903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chrysene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluorene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Naphthalene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Phenanthrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0

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Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A08-9769	A8B2046403	Method Blank(VBLK_) A08-9769	A8B2046403	Method Blank(VBLK_) A08-9769	A8B2046403	Method Blank(VBLK_) A08-9769	A8B2046403
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Acenaphthylene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Anthracene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)anthracene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)pyrene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(b)fluoranthene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(ghi)perylene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(k)fluoranthene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Chrysene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Fluoranthene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Fluorene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Naphthalene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Phenanthrene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0
Pyrene	UG/M3	ND	5.0	NA	5.0	NA	5.0	NA	5.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-9278 A8B1996401	Matrix Spike Blank A08-9367 A8B2012201	Matrix Spike Blank A08-9632 A8B2028701	Matrix Spike Blank A08-9769 A8B2051601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	18	4.0
Ethylbenzene	UG/M3	18	4.0	18	4.0
m/p-Xylenes	UG/M3	36	4.0	36	4.0
o-Xylene	UG/M3	18	4.0	18	4.0
Toluene	UG/M3	18	4.0	18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-9831 A8B2057501	Matrix Spike Blank A08-9962 A8B2076901	Matrix Spike Blank A08-A065 A8B2112501	Matrix Spike Blk Dup A08-9278 A8B1996402
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	16	4.0	18	4.0
Ethylbenzene	UG/M3	17	4.0	18	4.0
m/p-Xylenes	UG/M3	33	4.0	36	4.0
o-Xylene	UG/M3	16	4.0	18	4.0
Toluene	UG/M3	17	4.0	18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-9353 A8B2012202	Matrix Spike Blk Dup A08-9571 A8B2028702	Matrix Spike Blk Dup A08-9735 A8B2051602	Matrix Spike Blk Dup A08-9831 A8B2057502
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	17	4.0
Ethylbenzene	UG/M3	18	4.0	18	4.0
m/p-Xylenes	UG/M3	37	4.0	35	4.0
o-Xylene	UG/M3	18	4.0	17	4.0
Toluene	UG/M3	19	4.0	18	4.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-9962 A8B2076902		Matrix Spike Blk Dup A08-A065 A8B2112502		Reporting Limit	Sample Value	Reporting Limit	Sample Value
		Sample Value	Reporting Limit	Sample Value	Reporting Limit				
Benzene		18	4.0	18	4.0	4.0	NA		NA
Ethylbenzene		18	4.0	18	4.0	4.0	NA		NA
m/p-Xylenes		37	4.0	36	4.0	4.0	NA		NA
o-Xylene		18	4.0	18	4.0	4.0	NA		NA
Toluene		18	4.0	18	4.0	4.0	NA		NA

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-9353 A8B2006201		Matrix Spike Blank A08-9634 A8B2032501		Matrix Spike Blank A08-9736 A8B2046401		Matrix Spike Blank A08-9831 A8B2069301	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		8.5	5.0	11	5.0	12	5.0	10	5.0
Acenaphthylene		8.5	5.0	11	5.0	12	5.0	11	5.0
Anthracene		8.7	5.0	11	5.0	12	5.0	10	5.0
Benzo(a)anthracene		8.7	5.0	11	5.0	12	5.0	10	5.0
Benzo(a)pyrene		8.3	5.0	11	5.0	12	5.0	10	5.0
Benzo(b)fluoranthene		8.4	5.0	11	5.0	12	5.0	10	5.0
Benzo(ghi)perylene		8.5	5.0	11	5.0	12	5.0	9.7	5.0
Benzo(k)fluoranthene		8.3	5.0	11	5.0	12	5.0	10	5.0
Chrysene		8.8	5.0	11	5.0	12	5.0	10	5.0
Dibenzo(a,h)anthracene		8.0	5.0	11	5.0	12	5.0	9.8	5.0
Fluoranthene		8.8	5.0	11	5.0	12	5.0	10	5.0
Fluorene		8.6	5.0	11	5.0	12	5.0	11	5.0
Indeno(1,2,3-cd)pyrene		8.1	5.0	11	5.0	12	5.0	9.7	5.0
Naphthalene		8.3	5.0	11	5.0	12	5.0	11	5.0
Phenanthrene		8.8	5.0	11	5.0	12	5.0	10	5.0
Pyrene		8.9	5.0	11	5.0	12	5.0	10	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-A037 A8B2087901		Matrix Spike Blk Dup A08-9367 A8B2006202		Matrix Spike Blk Dup A08-9632 A8B2032502		Matrix Spike Blk Dup A08-9736 A8B2046402	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		9.9	5.0	8.6	5.0	9.2	5.0	12	5.0
Acenaphthylene		10	5.0	8.6	5.0	9.3	5.0	12	5.0
Anthracene		10	5.0	8.8	5.0	9.9	5.0	12	5.0
Benzo(a)anthracene		11	5.0	8.7	5.0	9.6	5.0	12	5.0
Benzo(a)pyrene		11	5.0	8.4	5.0	9.8	5.0	12	5.0
Benzo(b)fluoranthene		11	5.0	8.4	5.0	9.6	5.0	12	5.0
Benzo(ghi)perylene		11	5.0	8.4	5.0	9.9	5.0	12	5.0
Benzo(k)fluoranthene		11	5.0	8.3	5.0	9.7	5.0	12	5.0
Chrysene		11	5.0	8.8	5.0	9.7	5.0	12	5.0
Dibenzo(a,h)anthracene		11	5.0	7.9	5.0	9.7	5.0	12	5.0
Fluoranthene		10	5.0	8.8	5.0	9.6	5.0	12	5.0
Fluorene		10	5.0	8.7	5.0	9.6	5.0	12	5.0
Indeno(1,2,3-cd)pyrene		11	5.0	8.2	5.0	10	5.0	12	5.0
Naphthalene		9.8	5.0	8.5	5.0	9.2	5.0	12	5.0
Phenanthrene		10	5.0	8.8	5.0	9.8	5.0	12	5.0
Pyrene		11	5.0	8.9	5.0	9.8	5.0	12	5.0

30/83

Date: 08/27/2008
Time: 12:51:22

Rept: AN0326

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-9898	Matrix Spike Blk Dup A08-A036	Matrix Spike Blk Dup A8B2069302	Matrix Spike Blk Dup A8B2087902	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	
Acenaphthene	UG/M3	9.9	5.0	9.8	5.0	NA	5.0	NA	NA	NA	
Acenaphthylene	UG/M3	10	5.0	9.9	5.0	NA	5.0	NA	NA	NA	
Anthracene	UG/M3	10	5.0	10	5.0	NA	5.0	NA	NA	NA	
Benzo(a)anthracene	UG/M3	9.5	5.0	10	5.0	NA	5.0	NA	NA	NA	
Benzo(a)pyrene	UG/M3	9.4	5.0	10	5.0	NA	5.0	NA	NA	NA	
Benzo(b)fluoranthene	UG/M3	9.4	5.0	11	5.0	NA	5.0	NA	NA	NA	
Benzo(ghi)perylene	UG/M3	9.2	5.0	10	5.0	NA	5.0	NA	NA	NA	
Benzo(k)fluoranthene	UG/M3	9.4	5.0	10	5.0	NA	5.0	NA	NA	NA	
Chrysene	UG/M3	9.4	5.0	10	5.0	NA	5.0	NA	NA	NA	
Dibenzo(a,h)anthracene	UG/M3	9.1	5.0	10	5.0	NA	5.0	NA	NA	NA	
Fluoranthene	UG/M3	9.6	5.0	10	5.0	NA	5.0	NA	NA	NA	
Fluorene	UG/M3	10	5.0	9.9	5.0	NA	5.0	NA	NA	NA	
Indeno(1,2,3-cd)pyrene	UG/M3	9.3	5.0	11	5.0	NA	5.0	NA	NA	NA	
Naphthalene	UG/M3	9.7	5.0	9.8	5.0	NA	5.0	NA	NA	NA	
Phenanthrene	UG/M3	10	5.0	10	5.0	NA	5.0	NA	NA	NA	
Pyrene	UG/M3	9.9	5.0	10	5.0	NA	5.0	NA	NA	NA	

SD6: A89278

Client Sample ID: Method Blank
Lab Sample ID: A8B1996403

Matrix Spike Blank
A8B1996401

Matrix Spike Blk Dup
A8B1996402

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.0	17.8	20.0	20.0	90	89	90	1	30.0	65-119
Toluene	UG/M3	18.3	18.4	20.0	20.0	92	92	92	0	30.0	70-126
Ethylbenzene	UG/M3	18.1	18.4	20.0	20.0	91	92	92	1	30.0	72-129
m/p-Xylenes	UG/M3	36.0	36.6	40.0	40.0	90	92	91	2	30.0	72-128
o-Xylene	UG/M3	17.7	18.0	20.0	20.0	89	90	90	1	30.0	71-126

SDG: A89278

Client Sample ID: Method Blank
Lab Sample ID: A8B2006203

Matrix Spike Blank
A8B2006201

Matrix Spike Blk Dup
A8B2006202

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		% RPD
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H									
Dibenzo(a,h)anthracene	UG/M3	8.00	7.93	10.0	10.0	80	79	1	30.0 34-123
Benzo(a)anthracene	UG/M3	8.71	8.71	10.0	10.0	87	87	0	30.0 54-118
Anthracene	UG/M3	8.71	8.84	10.0	10.0	87	88	1	30.0 61-119
Acenaphthene	UG/M3	8.50	8.65	10.0	10.0	85	86	1	30.0 56-122
Naphthalene	UG/M3	8.29	8.47	10.0	10.0	83	85	2	30.0 56-121
Chrysene	UG/M3	8.75	8.76	10.0	10.0	88	88	0	30.0 52-119
Benzo(a)pyrene	UG/M3	8.34	8.37	10.0	10.0	83	84	1	30.0 45-120
Pyrene	UG/M3	8.86	8.93	10.0	10.0	89	89	0	30.0 55-120
Acenaphthylene	UG/M3	8.52	8.62	10.0	10.0	85	86	1	30.0 57-122
Indeno(1,2,3-cd)pyrene	UG/M3	8.11	8.18	10.0	10.0	81	82	1	30.0 34-118
Benzo(b)fluoranthene	UG/M3	8.44	8.40	10.0	10.0	84	84	0	30.0 46-116
Benzo(k)fluoranthene	UG/M3	8.31	8.33	10.0	10.0	83	83	0	30.0 49-115
Phenanthrene	UG/M3	8.76	8.80	10.0	10.0	88	88	0	30.0 60-120
Fluorene	UG/M3	8.62	8.73	10.0	10.0	86	87	1	30.0 59-121
Fluoranthene	UG/M3	8.80	8.81	10.0	10.0	88	88	0	30.0 55-119
Benzo(ghi)perylene	UG/M3	8.46	8.36	10.0	10.0	85	84	1	30.0 29-123

SDG: A89278

Client sample ID: Method Blank
Lab sample ID: A8B2028703

Matrix Spike Blank
A8B2028701

Matrix Spike Blk Dup
A8B2028702

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery		QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	Avg	% RPD	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	18.2	18.8	20.0	20.0	91	94	3	30.0 63-119
Toluene	UG/M3	18.5	19.2	20.0	20.0	93	96	3	30.0 70-126
Ethylbenzene	UG/M3	18.2	18.9	20.0	20.0	91	95	4	30.0 72-129
m/p-Xylenes	UG/M3	36.2	37.5	40.0	40.0	90	94	4	30.0 72-128
o-Xylene	UG/M3	17.8	18.5	20.0	20.0	89	93	4	30.0 71-126

SDG: A89278

Client Sample ID: Method Blank
Lab Sample ID: A8B2032503

Matrix Spike Blank
A8B2032501

Matrix Spike Blk Dup
A8B2032502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD	REC.		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD			Avg	% RPD
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	10.9	9.72	10.0	10.0	109	97	103	12	30.0	34-123
Benzo(a)anthracene	UG/M3	10.7	9.64	10.0	10.0	108	96	102	12	30.0	54-118
Anthracene	UG/M3	10.8	9.94	10.0	10.0	109	99	104	10	30.0	61-119
Acenaphthene	UG/M3	10.8	9.24	10.0	10.0	108	92	100	16	30.0	56-122
Naphthalene	UG/M3	11.0	9.21	10.0	10.0	110	92	101	18	30.0	56-121
Chrysene	UG/M3	10.8	9.67	10.0	10.0	108	97	103	11	30.0	52-119
Benzo(a)pyrene	UG/M3	10.8	9.77	10.0	10.0	109	98	104	11	30.0	45-120
Pyrene	UG/M3	10.9	9.79	10.0	10.0	109	98	104	11	30.0	55-120
Acenaphthylene	UG/M3	10.9	9.33	10.0	10.0	110	93	102	17	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	11.1	10.0	10.0	10.0	111	100	106	10	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.8	9.63	10.0	10.0	108	96	102	12	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.8	9.71	10.0	10.0	108	97	103	11	30.0	49-115
Phenanthrene	UG/M3	10.8	9.78	10.0	10.0	108	98	103	10	30.0	60-120
Fluorene	UG/M3	10.8	9.56	10.0	10.0	109	96	103	13	30.0	59-121
Fluoranthene	UG/M3	10.6	9.58	10.0	10.0	106	96	101	10	30.0	55-119
Benzo(ghi)perylene	UG/M3	10.9	9.86	10.0	10.0	110	99	105	10	30.0	29-123

SDG: A89278

Client Sample ID: Method Blank
Lab Sample ID: A8B2069303

Matrix Spike Blank
A8B2069301

Matrix Spike Blk Dup
A8B2069302

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery			QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	SB	AVG	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H												
Dibenzo(a,h)anthracene	UG/M3	9.78	9.13	10.0	10.0	98	91	95	95	7	30.0	34-123
Benzo(a)anthracene	UG/M3	10.0	9.50	10.0	10.0	101	95	98	98	6	30.0	54-118
Anthracene	UG/M3	10.5	10.0	10.0	10.0	105	100	103	103	5	30.0	61-119
Acenaphthene	UG/M3	10.5	9.90	10.0	10.0	105	99	102	102	6	30.0	56-122
Naphthalene	UG/M3	10.6	9.72	10.0	10.0	106	97	102	102	9	30.0	56-121
Chrysene	UG/M3	10.0	9.44	10.0	10.0	101	94	98	98	7	30.0	52-119
Benzo(a)pyrene	UG/M3	10.0	9.40	10.0	10.0	100	94	97	97	6	30.0	45-120
Pyrene	UG/M3	10.2	9.86	10.0	10.0	102	99	101	101	3	30.0	55-120
Acenaphthylene	UG/M3	10.6	10.0	10.0	10.0	106	100	103	103	6	30.0	57-122
Indeno(1,2,3-co)pyrene	UG/M3	9.73	9.28	10.0	10.0	97	93	95	95	4	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.0	9.35	10.0	10.0	101	94	98	98	7	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.0	9.38	10.0	10.0	100	94	97	97	6	30.0	49-115
Phenanthrene	UG/M3	10.4	9.97	10.0	10.0	105	100	103	103	5	30.0	60-120
Fluorene	UG/M3	10.6	10.1	10.0	10.0	106	101	104	104	5	30.0	59-121
Fluoranthene	UG/M3	10.0	9.62	10.0	10.0	101	96	99	99	5	30.0	55-119
Benzo(ghi)perylene	UG/M3	9.74	9.16	10.0	10.0	97	92	95	95	5	30.0	29-123

SDG: A89278

Client Sample ID: Method Blank
Lab Sample ID: A8BZ076903

Matrix Spike Blank
A8BZ076901

Matrix Spike Blk Dup
A8BZ076902

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery		% RPD		QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	SB	SBD	SB	SBD	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS												
Benzene	UG/M3	18.8	17.8	20.0	20.0	94	89	92	5	30.0	63-119	
Toluene	UG/M3	19.2	18.4	20.0	20.0	96	92	94	4	30.0	70-126	
Ethylbenzene	UG/M3	19.3	18.4	20.0	20.0	97	92	95	5	30.0	72-129	
m/p-Xylenes	UG/M3	38.2	36.7	40.0	40.0	96	92	94	4	30.0	72-128	
o-Xylene	UG/M3	18.9	18.1	20.0	20.0	94	91	93	3	30.0	71-126	

SDG: A89Z78

Client Sample ID: Method Blank
Lab Sample ID: A8B2087903

Matrix Spike Blank
A8B2087901

Matrix Spike Blk Dup
A8B2087902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		% RPD	QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	10.8	10.5	10.0	10.0	105	107	3	30.0	34-123
Benzo(a)anthracene	UG/M3	10.8	10.5	10.0	10.0	105	107	3	30.0	54-118
Anthracene	UG/M3	10.4	10.0	10.0	10.0	100	102	4	30.0	61-119
Acenaphthene	UG/M3	9.93	9.76	10.0	10.0	98	99	1	30.0	56-122
Naphthalene	UG/M3	9.79	9.84	10.0	10.0	98	98	0	30.0	56-121
Chrysene	UG/M3	10.8	10.4	10.0	10.0	105	107	4	30.0	52-119
Benzo(a)pyrene	UG/M3	10.7	10.5	10.0	10.0	106	107	2	30.0	45-120
Pyrene	UG/M3	10.6	10.3	10.0	10.0	103	105	3	30.0	55-120
Acenaphthylene	UG/M3	10.0	9.86	10.0	10.0	101	99	2	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	10.8	10.6	10.0	10.0	106	107	2	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.7	10.6	10.0	10.0	106	107	0.	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.8	10.5	10.0	10.0	105	107	3	30.0	49-115
Phenanthrene	UG/M3	10.3	9.98	10.0	10.0	103	102	3	30.0	60-120
Fluorene	UG/M3	10.1	9.88	10.0	10.0	99	101	3	30.0	59-121
Fluoranthene	UG/M3	10.4	10.1	10.0	10.0	101	103	3	30.0	55-119
Benzo(ghi)perylene	UG/M3	10.6	10.5	10.0	10.0	105	106	2	30.0	29-123

SDG: A89278

Client Sample ID: Method Blank
Lab Sample ID: A8B2112503

Matrix Spike Blank
A8B2112501

Matrix Spike Blk Dup
A8B2112502

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	17.8	18.0	20.0	20.0	89	90	90	1	30.0	63-119
Toluene	UG/M3	18.2	18.3	20.0	20.0	91	92	92	1	30.0	70-126
Ethylbenzene	UG/M3	18.0	18.2	20.0	20.0	90	91	91	1	30.0	72-129
m/p-Xylenes	UG/M3	35.7	36.0	40.0	40.0	89	90	90	1	30.0	72-128
o-Xylene	UG/M3	17.6	17.7	20.0	20.0	88	88	88	0	30.0	71-126

SDG: A89278

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A8B2012203 A8B2012201 A8B2012202

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	18.6	18.2	20.0	20.0	93	91	30.0	63-119
Toluene	UG/M3	19.1	18.7	20.0	20.0	96	94	30.0	70-126
Ethylbenzene	UG/M3	18.8	18.5	20.0	20.0	94	93	30.0	72-129
m/p-Xylenes	UG/M3	37.4	36.7	40.0	40.0	94	92	30.0	72-128
o-Xylene	UG/M3	18.4	18.1	20.0	20.0	92	91	30.0	71-126

SDG: A89278
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A8B2046403 A8B2046401 A8B2046402

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	12.1	12.3	10.0	10.0	121	124 *	2	30.0	34-123
Benzo(a)anthracene	UG/M3	11.8	11.8	10.0	10.0	118	118	0	30.0	54-118
Anthracene	UG/M3	12.1	12.0	10.0	10.0	122 *	120 *	2	30.0	61-119
Acenaphthene	UG/M3	12.0	11.9	10.0	10.0	120	120	0	30.0	56-122
Naphthalene	UG/M3	11.6	11.8	10.0	10.0	117	118	0	30.0	56-121
Chrysene	UG/M3	11.8	11.8	10.0	10.0	118	118	0	30.0	52-119
Benzo(a)pyrene	UG/M3	11.9	12.0	10.0	10.0	119	120	0	30.0	45-120
Pyrene	UG/M3	11.8	11.9	10.0	10.0	119	120	0	30.0	55-120
Acenaphthylene	UG/M3	12.2	12.0	10.0	10.0	122	121	0	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	12.1	12.4	10.0	10.0	122 *	124 *	2	30.0	34-118
Benzo(b)fluoranthene	UG/M3	11.8	11.9	10.0	10.0	119 *	120 *	0	30.0	46-116
Benzo(k)fluoranthene	UG/M3	11.9	12.0	10.0	10.0	119 *	120 *	0	30.0	49-115
Phenanthrene	UG/M3	12.0	12.0	10.0	10.0	121 *	120	0	30.0	60-120
Fluorene	UG/M3	12.1	12.0	10.0	10.0	122 *	121	0	30.0	59-121
Fluoranthene	UG/M3	11.8	11.7	10.0	10.0	118	118	0	30.0	55-119
Benzo(ghi)perylene	UG/M3	11.7	12.1	10.0	10.0	118	121	2	30.0	29-123

SDG: A89278

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank ABB2051603
 Lab Sample ID: ABB2051603 Matrix Spike Blk Dup ABB2051602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	17.2	17.2	20.0	20.0	86	86	86	0	30.0	63-119
Toluene	UG/M3	17.8	17.8	20.0	20.0	89	89	89	0	30.0	70-126
Ethylbenzene	UG/M3	17.8	17.8	20.0	20.0	89	89	89	0	30.0	72-129
m/p-Xylenes	UG/M3	35.4	35.4	40.0	40.0	89	89	89	0	30.0	72-128
o-Xylene	UG/M3	17.4	17.4	20.0	20.0	87	87	87	0	30.0	71-126

SDG: A89278
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank A8B2057501 Matrix Spike Blk Dup A8B2057502
 Lab Sample ID: A8B2057503

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.0	15.7	20.0	20.0	80	79	30.0	63-119
Toluene	UG/M3	16.7	16.2	20.0	20.0	84	81	30.0	70-126
Ethylbenzene	UG/M3	16.7	16.2	20.0	20.0	84	81	30.0	72-129
m/p-Xylenes	UG/M3	33.2	32.3	40.0	40.0	83	81	30.0	72-128
o-Xylene	UG/M3	16.3	15.9	20.0	20.0	82	80	30.0	71-126

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	DUP.-SOUTH ANASORB A08-9355 A8935507	EAST ANASORB A08-9279 A8927903	EAST ANASORB A08-9355 A8935501	EAST ANASORB A08-9367 A8936703	EAST ANASORB A08-9573 A8957303
Sample Date	08/01/2008 15:30	07/31/2008 00:00	08/01/2008 15:30	08/02/2008 14:30	08/06/2008 14:45
Received Date	08/04/2008 10:00	08/01/2008 09:20	08/04/2008 10:00	08/04/2008 09:30	08/07/2008 09:15
Extraction Date	08/06/2008 14:44	08/02/2008 18:57	08/06/2008 13:45	08/06/2008 13:44	08/08/2008 16:24
Analysis Date					
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	1.0	2.0	2.0	2.0
Dilution Factor	1.088	1.013	1.006	1.035	1.031
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-9634 A8963403	EAST ANASORB A08-9736 A8973603	EAST ANASORB A08-9769 A8976903	EAST ANASORB A08-9831 A8983103	EAST ANASORB A08-9895 A8989503
Sample Date	08/07/2008 15:00	08/08/2008 14:30	08/11/2008 15:30	08/12/2008 15:00	08/13/2008 15:09
Received Date	08/08/2008 09:15	08/11/2008 09:00	08/12/2008 09:00	08/13/2008 09:00	08/14/2008 09:00
Extraction Date	08/08/2008 19:23	08/13/2008 17:17	08/13/2008 18:55	08/14/2008 12:27	08/14/2008 16:01
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	2.0	2.0
Sample wt/vol % Dry	1.027 LITERS	1.027 LITERS	1.085 LITERS	1.004 LITERS	1.009 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-9960 A8996003	EAST ANASORB A08-A065 A8A06503	EAST XAD A08-9279 A8927904	EAST XAD A08-9355 A8935502	EAST XAD A08-9367 A8936704
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/14/2008 15:10 08/15/2008 09:00 08/18/2008 14:32 - YES AIR 2.0 0.674 LITERS	08/18/2008 15:00 08/19/2008 09:00 08/22/2008 16:51 - YES AIR 2.0 0.653 LITERS	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-9960 A8996003	EAST ANASORB A08-A065 A8A06503	EAST XAD A08-9279 A8927904	EAST XAD A08-9355 A8935502	EAST XAD A08-9367 A8936704
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	07/31/2008 00:00 08/01/2008 09:20 08/05/2008 19:36 - YES AIR 1.0 1.071 LITERS	08/01/2008 15:30 08/04/2008 10:00 08/05/2008 20:46 - YES AIR 1.0 1.084 LITERS	08/02/2008 14:30 08/04/2008 09:30 08/05/2008 23:40 - YES AIR 1.0 1.097 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-9573 A8957304	EAST XAD A08-9634 A8963404	EAST XAD A08-9736 A8973604	EAST XAD A08-9769 A8976904	EAST XAD A08-9831 A8983104
Sample Date	08/06/2008 14:45	08/07/2008 15:00	08/08/2008 14:30	08/11/2008 15:30	08/12/2008 15:00
Received Date	08/07/2008 09:15	08/08/2008 09:15	08/11/2008 09:00	08/12/2008 09:00	08/13/2008 09:00
Extraction Date	08/12/2008 16:49	08/12/2008 20:17	08/13/2008 05:34	08/13/2008 07:18	08/15/2008 19:59
Analysis Date					
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.099	1.093	1.084	1.157	1.092
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-9895 A8989504	EAST XAD A08-9960 A8996004	EAST XAD A08-A037 A8A03704	EAST XAD A08-A065 A8A06504	NORTH ANASORB A08-9279 A8927901
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	NA	07/31/2008 00:00 08/01/2008 09:20 08/02/2008 18:38 - YES AIR 1.0 1.017 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-9895 A8989504	EAST XAD A08-9960 A8996004	EAST XAD A08-A037 A8A03704	EAST XAD A08-A065 A8A06504	NORTH ANASORB A08-9279 A8927901
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/13/2008 15:09 08/14/2008 09:00 08/16/2008 00:02 - YES AIR 1.0 1.114 LITERS	08/14/2008 15:10 08/15/2008 09:00 08/15/2008 21:43 - YES AIR 1.0 1.117 LITERS	08/15/2008 15:00 08/18/2008 08:45 08/20/2008 01:29 - YES AIR 1.0 1.08 LITERS	08/18/2008 15:00 08/19/2008 09:00 08/20/2008 03:13 - YES AIR 1.0 1.001 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-9353 A8935301	NORTH ANASORB A08-9367 A8936701	NORTH ANASORB A08-9573 A8957301	NORTH ANASORB A08-9634 A8963401	NORTH ANASORB A08-9736 A8973601
Sample Date	08/01/2008 15:30	08/02/2008 14:30	08/06/2008 14:45	08/07/2008 15:00	08/08/2008 14:30
Received Date	08/04/2008 10:00	08/04/2008 09:30	08/07/2008 09:15	08/08/2008 09:15	08/11/2008 09:00
Extraction Date	08/06/2008 13:05	08/06/2008 15:04	08/08/2008 16:05	08/08/2008 19:03	08/13/2008 16:57
Analysis Date	YES	YES	YES	YES	YES
Extraction HT Met?	AIR	AIR	AIR	AIR	AIR
Analytical HT Met?	2.0	2.0	2.0	2.0	2.0
Sample Matrix	1.015	1.007	0.966	0.966	0.958
Dilution Factor	LITERS	LITERS	LITERS	LITERS	LITERS
Sample wt/vol					
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-9769 A8976901	NORTH ANASORB A08-9831 A8983101	NORTH ANASORB A08-9895 A8989501	NORTH ANASORB A08-9960 A8996001	NORTH ANASORB A08-A037 A8A03701
Sample Date	08/11/2008 15:30	08/12/2008 15:00	08/13/2008 15:08	08/14/2008 15:09	08/15/2008 15:00
Received Date	08/12/2008 09:00	08/13/2008 09:00	08/14/2008 09:00	08/15/2008 09:00	08/18/2008 08:45
Extraction Date	08/13/2008 18:16	08/14/2008 12:07	08/14/2008 15:41	08/18/2008 14:12	08/18/2008 15:30
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	1.641	1.048	1.078	0.688	0.67
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-A065 A8A06501	NORTH XAD A08-9279 A8927902	NORTH XAD A08-9353 A8935302	NORTH XAD A08-9367 A8936702	NORTH XAD A08-9573 A8957302
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/18/2008 15:00 08/19/2008 09:00 08/22/2008 16:12 - YES AIR 2.0 0.665 LITERS	NA	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-A065 A8A06501	NORTH XAD A08-9279 A8927902	NORTH XAD A08-9353 A8935302	NORTH XAD A08-9367 A8936702	NORTH XAD A08-9573 A8957302
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/31/2008 00:00 08/01/2008 09:20 08/05/2008 19:01 - YES AIR 1.0 1.138 LITERS	08/01/2008 15:30 08/04/2008 10:00 08/05/2008 17:52 - YES AIR 1.0 1.117 LITERS	08/02/2008 14:30 08/04/2008 09:30 08/05/2008 23:05 - YES AIR 1.0 1.107 LITERS	08/06/2008 14:45 08/07/2008 09:15 08/12/2008 16:14 - YES AIR 1.0 1.121 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-9634 A8963402	NORTH XAD A08-9736 A8973602	NORTH XAD A08-9769 A8976902	NORTH XAD A08-9831 A8983102	NORTH XAD A08-9895 A8989502
Sample Date	08/07/2008 15:00	08/08/2008 14:30	08/11/2008 15:30	08/12/2008 15:00	08/13/2008 15:08
Received Date	08/08/2008 09:15	08/11/2008 09:00	08/12/2008 09:00	08/13/2008 09:00	08/14/2008 09:00
Extraction Date	08/12/2008 19:08	08/13/2008 04:59	08/13/2008 06:43	08/15/2008 19:24	08/15/2008 23:28
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.116	1.088	1.171	1.092	1.112
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-9960 A8996002	NORTH XAD A08-A037 A8A03702	NORTH XAD A08-A065 A8A06502	NORTHWEST ANASORB A08-9898 A8989803	NORTHWEST XAD A08-9898 A8989804
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	08/13/2008 15:08 08/14/2008 09:00 08/14/2008 15:22 - YES AIR 2.0 1.076 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-9960 A8996002	NORTH XAD A08-A037 A8A03702	NORTH XAD A08-A065 A8A06502	NORTHWEST ANASORB A08-9898 A8989803	NORTHWEST XAD A08-9898 A8989804
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/14/2008 15:09 08/15/2008 09:00 08/15/2008 21:09 - YES AIR 1.0 1.114 LITERS	08/15/2008 15:00 08/18/2008 08:45 08/20/2008 00:54 - YES AIR 1.0 1.101 LITERS	08/18/2008 15:00 08/19/2008 09:00 08/20/2008 02:38 - YES AIR 1.0 1.001 LITERS	NA	08/13/2008 15:08 08/14/2008 09:00 08/16/2008 01:47 - YES AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-9278 A8927801	SOUTH ANASORB A08-9355 A8935505	SOUTH ANASORB A08-9366 A8936601	SOUTH ANASORB A08-9571 A8957101	SOUTH ANASORB A08-9632 A8963201
Sample Date	07/31/2008 00:00	08/01/2008 15:30	08/02/2008 14:30	08/06/2008 14:45	08/07/2008 15:00
Received Date	08/01/2008 09:20	08/04/2008 10:00	08/04/2008 09:30	08/07/2008 09:15	08/08/2008 09:15
Extraction Date	08/02/2008 15:58	08/06/2008 14:25	08/06/2008 13:25	08/08/2008 15:45	08/08/2008 18:43
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	2.0	2.0	2.0	2.0
Sample wt/vol % Dry	1.209 LITERS	1.206 LITERS	1.196 LITERS	1.22 LITERS	1.201 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-9735 A8973501	SOUTH ANASORB A08-9770 A8977001	SOUTH ANASORB A08-9832 A8983201	SOUTH ANASORB A08-9898 A8989801	SOUTH ANASORB A08-9962 A8996201
Sample Date	08/08/2008 14:30	08/11/2008 15:30	08/12/2008 15:00	08/13/2008 15:05	08/14/2008 15:08
Received Date	08/11/2008 09:00	08/12/2008 09:00	08/13/2008 09:00	08/14/2008 09:00	08/15/2008 09:00
Extraction Date	08/13/2008 16:18	08/13/2008 16:37	08/14/2008 13:06	08/14/2008 15:02	08/18/2008 12:55
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	2.0	2.0
Sample wt/vol % Dry	1.205 LITERS	1.056 LITERS	1.218 LITERS	1.186 LITERS	0.585 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-A036 A8A03601	SOUTH ANASORB A08-A064 A8A06401	SOUTH ANASORB DUP A08-9736 A8973607	SOUTH ANASORB DUP A08-A037 A8A03707	SOUTH XAD A08-9278 A8927802
Sample Date	08/15/2008 15:00	08/18/2008 15:00	08/08/2008 14:30	08/15/2008 15:00	
Received Date	08/18/2008 08:45	08/19/2008 09:00	08/11/2008 09:00	08/18/2008 08:45	
Extraction Date	08/18/2008 13:33	08/22/2008 14:14	08/13/2008 17:57	08/18/2008 16:09	
Analysis Date					
Extraction HT Met?	YES	YES	YES	YES	NA
Analytical HT Met?	AIR	AIR	AIR	AIR	
Sample Matrix	2.0	2.0	2.0	2.0	
Dilution Factor	0.703	0.691	0.99	0.814	
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	
% Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-A036 A8A03601	SOUTH ANASORB A08-A064 A8A06401	SOUTH ANASORB DUP A08-9736 A8973607	SOUTH ANASORB DUP A08-A037 A8A03707	SOUTH XAD A08-9278 A8927802
Sample Date					
Received Date					07/31/2008 00:00
Extraction Date					08/01/2008 09:20
Analysis Date					08/05/2008 17:17
Extraction HT Met?	NA	NA	NA	NA	
Analytical HT Met?					
Sample Matrix					YES
Dilution Factor					AIR
Sample wt/vol					1.0
% Dry					1.151
					LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-9355 A8935506	SOUTH XAD A08-9366 A8936602	SOUTH XAD A08-9571 A8957102	SOUTH XAD A08-9632 A8963202	SOUTH XAD A08-9735 A8973502
Sample Date	08/01/2008 15:30	08/02/2008 14:30	08/06/2008 14:45	08/07/2008 15:00	08/08/2008 14:30
Received Date	08/04/2008 10:00	08/04/2008 09:30	08/07/2008 09:15	08/08/2008 09:15	08/11/2008 09:00
Extraction Date	08/05/2008 22:30	08/05/2008 18:27	08/12/2008 15:39	08/12/2008 17:58	08/13/2008 04:24
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	1.168 LITERS	1.149 LITERS	1.178 LITERS	1.153 LITERS	1.14 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-9770 A8977002	SOUTH XAD A08-9832 A8983202	SOUTH XAD A08-9898 A8989802	SOUTH XAD A08-9962 A8996202	SOUTH XAD A08-A036 A8A03602
Sample Date	08/11/2008 15:30	08/12/2008 15:00	08/13/2008 15:05	08/14/2008 15:08	08/15/2008 15:00
Received Date	08/12/2008 09:00	08/13/2008 09:00	08/14/2008 09:00	08/15/2008 09:00	08/18/2008 08:45
Extraction Date	08/13/2008 03:50	08/15/2008 18:15	08/16/2008 01:12	08/15/2008 18:50	08/19/2008 23:44
Analysis Date					
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.228	1.158	1.165	1.169	1.149
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-A064 A8A06402	WEST ANASORB A08-9279 A8927905	WEST ANASORB A08-9355 A8935503	WEST ANASORB A08-9367 A8936705	WEST ANASORB A08-9573 A8957305
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	07/31/2008 00:00 08/01/2008 09:20 08/02/2008 19:17 - YES AIR 1.0 1.17 LITERS	08/01/2008 15:30 08/04/2008 10:00 08/06/2008 14:05 - YES AIR 2.0 1.181 LITERS	08/02/2008 14:30 08/04/2008 09:30 08/06/2008 16:04 - YES AIR 2.0 1.177 LITERS	08/06/2008 14:45 08/07/2008 09:15 08/08/2008 16:44 - YES AIR 2.0 1.167 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-A064 A8A06402	WEST ANASORB A08-9279 A8927905	WEST ANASORB A08-9355 A8935503	WEST ANASORB A08-9367 A8936705	WEST ANASORB A08-9573 A8957305
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/18/2008 15:00 08/19/2008 09:00 08/20/2008 00:19 - YES AIR 1.0 1.164 LITERS	NA	NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab sample ID	WEST ANASORB A08-9634 A8963405	WEST ANASORB A08-9736 A8973605	WEST ANASORB A08-9769 A8976905	WEST ANASORB A08-9831 A8983105	WEST ANASORB A08-9895 A8989505
Sample Date	08/07/2008 15:00	08/08/2008 14:30	08/11/2008 15:30	08/12/2008 15:00	08/13/2008 15:07
Received Date	08/08/2008 09:15	08/11/2008 09:00	08/12/2008 09:00	08/13/2008 09:00	08/14/2008 09:00
Extraction Date	08/08/2008 19:43	08/13/2008 17:37	08/13/2008 19:15	08/14/2008 12:46	08/14/2008 16:20
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	2.0	2.0
Sample wt/vol	1.181 LITERS	1.186 LITERS	1.286 LITERS	1.191 LITERS	1.214 LITERS
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-9960 A8996005	WEST ANASORB A08-A037 A8A03705	WEST ANASORB A08-A065 A8A06505	WEST XAD A08-9279 A8927906	WEST XAD A08-9355 A8935504
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/14/2008 15:09 08/15/2008 09:00 08/18/2008 14:51 - YES AIR 2.0 0.655 LITERS	08/15/2008 15:00 08/18/2008 08:45 08/18/2008 15:50 - YES AIR 2.0 0.646 LITERS	08/18/2008 15:00 08/19/2008 09:00 08/22/2008 17:11 - YES AIR 2.0 0.642 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab sample ID	WEST ANASORB A08-9960 A8996005	WEST ANASORB A08-A037 A8A03705	WEST ANASORB A08-A065 A8A06505	WEST XAD A08-9279 A8927906	WEST XAD A08-9355 A8935504
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	07/31/2008 00:00 08/01/2008 09:20 08/05/2008 20:11 - YES AIR 1.0 1.023 LITERS	08/01/2008 15:30 08/04/2008 10:00 08/05/2008 21:55 - YES AIR 1.0 1.052 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST XAD A08-9367 A8936706	WEST XAD A08-9573 A8957306	WEST XAD A08-9634 A8963406	WEST XAD A08-9736 A8973606	WEST XAD A08-9769 A8976906
Sample Date	08/02/2008 14:30	08/06/2008 14:45	08/07/2008 15:00	08/08/2008 14:30	08/11/2008 15:30
Received Date	08/04/2008 09:30	08/07/2008 09:15	08/08/2008 09:15	08/11/2008 09:00	08/12/2008 09:00
Extraction Date	08/06/2008 00:15	08/12/2008 17:23	08/12/2008 20:52	08/13/2008 06:08	08/13/2008 08:27
Analysis Date	-	-	-	-	-
Extractional HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.056	1.051	1.078	1.078	1.151
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	LITERS
% Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST XAD A08-9831 A8983106	WEST XAD A08-9895 A8989506	WEST XAD A08-9960 A8996006	WEST XAD A08-A037 A8A03706	WEST XAD A08-A065 A8A06506
Sample Date	08/12/2008 15:00	08/13/2008 15:07	08/14/2008 15:09	08/15/2008 15:00	08/18/2008 15:00
Received Date	08/13/2008 09:00	08/14/2008 09:00	08/15/2008 09:00	08/18/2008 08:45	08/19/2008 09:00
Extraction Date	08/15/2008 20:34	08/16/2008 00:37	08/15/2008 22:53	08/20/2008 02:03	08/20/2008 04:22
Analysis Date	YES	YES	YES	YES	YES
Extraction HT Met?	AIR	AIR	AIR	AIR	AIR
Analytical HT Met?	1.0	1.0	1.0	1.0	1.0
Sample Matrix	1.079 LITERS	1.095 LITERS	1.065 LITERS	1.077 LITERS	1.081 LITERS
Dilution Factor					
Sample wt/vol					
% Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-9278 A8B1996401	Matrix Spike Blank A08-9353 A8B2006201	Matrix Spike Blank A08-9367 A8B2012201	Matrix Spike Blank A08-9632 A8B2028701	Matrix Spike Blank A08-9634 A8B2032501
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/02/2008 14:37 - - AIR 1.0 0.5 LITERS	NA	08/06/2008 12:06 - - AIR 1.0 0.5 LITERS	08/08/2008 12:32 - - AIR 1.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-9278 A8B1996401	Matrix Spike Blank A08-9353 A8B2006201	Matrix Spike Blank A08-9367 A8B2012201	Matrix Spike Blank A08-9632 A8B2028701	Matrix Spike Blank A08-9634 A8B2032501
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/05/2008 15:33 - - AIR 1.0 1.0 LITERS	NA	NA	08/12/2008 14:29 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-9736 A8B2046401	Matrix Spike Blank A08-9769 A8B2051601	Matrix Spike Blank A08-9831 A8B2057501	Matrix Spike Blank A08-9831 A8B2069301	Matrix Spike Blank A08-9962 A8B2076901
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/13/2008 15:18 - - AIR 1.0 0.5 LITERS	08/14/2008 11:09 - - AIR 1.0 0.5 LITERS	NA	08/18/2008 11:56 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-9736 A8B2046401	Matrix Spike Blank A08-9769 A8B2051601	Matrix Spike Blank A08-9831 A8B2057501	Matrix Spike Blank A08-9831 A8B2069301	Matrix Spike Blank A08-9962 A8B2076901
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/13/2008 02:05 - - AIR 1.0 1.0 LITERS	NA	NA	08/15/2008 17:06 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9571 A8B2028702	Matrix Spike Blk Dup A08-9632 A8B2032502	Matrix Spike Blk Dup A08-9736 A8B2046402	Matrix Spike Blk Dup A08-9735 A8B2051602	Matrix Spike Blk Dup A08-9831 A8B2057502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/08/2008 12:52 - AIR 1.0 0.5 LITERS	NA	NA	08/13/2008 15:38 - AIR 1.0 0.5 LITERS	08/14/2008 11:28 - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9571 A8B2028702	Matrix Spike Blk Dup A08-9632 A8B2032502	Matrix Spike Blk Dup A08-9736 A8B2046402	Matrix Spike Blk Dup A08-9735 A8B2051602	Matrix Spike Blk Dup A08-9831 A8B2057502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/12/2008 15:04 - AIR 1.0 1.0 LITERS	08/13/2008 02:40 - AIR 1.0 1.0 LITERS	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9898 A8B2069302	Matrix Spike Blk Dup A08-9962 A8B2076902	Matrix Spike Blk Dup A08-A036 A8B2087902	Matrix Spike Blk Dup A08-A065 A8B2112502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/18/2008 12:16 - - AIR 1.0 0.5 LITERS	NA	08/22/2008 13:55 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-9898 A8B2069302	Matrix Spike Blk Dup A08-9962 A8B2076902	Matrix Spike Blk Dup A08-A036 A8B2087902	Matrix Spike Blk Dup A08-A065 A8B2112502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/15/2008 17:40 - - AIR 1.0 1.0 LITERS	NA	08/19/2008 23:09 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-9278 A8B1996403	Method Blank A08-9278 A8B2006203	Method Blank A08-9634 A8B2028703	Method Blank A08-9634 A8B2032503	Method Blank A08-9960 A8B2069303
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/02/2008 14:17 - - AIR 1.0 0.5 LITERS	NA	08/08/2008 12:13 - - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank A08-9278 A8B1996403	Method Blank A08-9278 A8B2006203	Method Blank A08-9634 A8B2028703	Method Blank A08-9634 A8B2032503	Method Blank A08-9960 A8B2069303
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/05/2008 16:42 - - AIR 1.0 1.0 LITERS	NA	08/12/2008 13:55 - - AIR 1.0 1.0 LITERS	08/15/2008 16:51 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-A037 A8B2076903	Method Blank A08-A065 A8B2112503	Method Blank(VBLK_) A08-9769 A8B2046403
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/18/2008 12:35 - - AIR 1.0 0.5 LITERS	08/22/2008 13:16 - - AIR 1.0 0.5 LITERS	08/06/2008 12:45 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank A08-A037 A8B2076903	Method Blank A08-A065 A8B2112503	Method Blank(VBLK_) A08-9769 A8B2046403
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/19/2008 22:00 - - AIR 1.0 1.0 LITERS	NA	08/13/2008 03:15 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A08-9735 A8B2051603	Method Blank(VBLK_) A08-9898 A8B2057503		
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/13/2008 15:58 - AIR 1.0 0.5 LITERS	08/14/2008 11:48 - AIR 1.0 0.5 LITERS		

Chain of Custody Record

TAL-4142 (0907)

Client: Haley Aldrich Project Manager: David Demas Date: 7/31/08 Chain of Custody Number: 388608
 Address: 4912 S. Hohman Telephone Number (Area Code)/Fax Number: 317-603-4843 Lab Number: _____ or _____
 City: Hammond State: IN Zip Code: 46323 Site Contact: J. Balkony Lab Contact: C. FOX Page: _____ of _____
 Project Name and Location (State): Hammond, MGP, IN Carrier/Waybill Number: _____

Sample I.D., No. and Description (Containers for each sample may be combined on one line)	Date	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
		Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl			NaOH
North Anasorb	7/31/08	X				X						Flow 480 min. 480
North Xad												Flow 480 min. 480
East Anasorb												Flow 480 min. 480
East Xad												Flow 480 min. 480
West Anasorb												Flow 480 min. 480
West Xad												Flow 480 min. 480
South Anasorb												Flow 480 min. 480
South Xad												Flow 480 min. 480

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months - longer than 1 month (A fee may be assessed if samples are retained longer than 1 month)

Sample Disposal: Air Aqueous Sed. Soil Unpres. H2SO4 HNO3 HCl NaOH ZnAc/NaOH

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See Comment

Relinquished By: David Demas Date: 7-31-08 Time: 3:30
 Relinquished By: _____ Date: _____ Time: _____
 Relinquished By: _____ Date: _____ Time: _____

Comments: Indicates priority samples w/ 3 TIA T. Ad others T.A. 7
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

IL-4142 (0807)

Client: **Haley Aldrich** Project Manager: **David Demas** Date: **8/1/08** Chain of Custody Number: **388618**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-407-7670** Lab Number: **1** of **1**
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Bellamy** Lab Contact: **C. FOY**

Sample I.D. No. and Description <small>Containers for each sample may be combined on one line)</small>	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH
North Anasorb *	8/1/08	15:00	X												10000 Fluor Polymer minutes
North Xad															1015 2114
East Anasorb															1117 2327
East Xad															1000 2196
West Anasorb															1084 2256
West Xad															1181 2460
South Anasorb															1062 2192
South Xad															1206 2512
UP - South Anasorb															1168 2433
															1088 2164

Sample Disposal: Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By: **David Demas** Date: **8/1/08** Time: **15:30**
 Relinquished By: **[Signature]** Date: **8/1/08** Time: **10:20**
 Relinquished By: **[Signature]** Date: **8/1/08** Time: **10:20**

Comments: **INDICATES SAMPLES W-3 T.A.T. call OTHER ST. ART.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4142 (0907)

Client: **Haley + Alderton** Project Manager: **David Demas** Date: **8/6/08** Chain of Custody Number: **388604**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317 427-7670** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **J. Bellamy** Lab Contact: **C. Fox** Page: **1** of **1**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt
			Aq	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb	8/6/08	2:45	X										X VOC	TOX / Flashed Filter (mm) / MINUTES
North Xad													X	9166 2.113 480
East Anasorb													X	1121 2.336
East Xad													X	1078 2.148
West Anasorb													X	1079 2.289
West Xad													X	1167 2.488
South Anasorb													X	1051 2.190
South Xad													X	1820 2.548
													X	1178 2.455

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See Comment**

1. Relinquished By: **Jennifer Bellamy** Date: **8/14/08** Time: **3:30**
 2. Relinquished By: **Cherish Spymonk** Date: **8-7-08** Time: **0915**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates Priority W-3 T.A.T. all other T.A.T. 4.0**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

Temperature on Receipt _____

Drinking Water? Yes No

Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1/007)

Client: Haley + Aldrich Project Manager: David Demas Date: 8/7/08 Chain of Custody Number: 086510

Address: 4912 S. Hohman Telephone Number (Area Code)/Fax Number: 317-407-7670 Lab Number: _____

City: Hammond State: IN Zip Code: 46323 Site Contact: J. Bellamy Lab Contact: C. Fey Page: _____ of _____

Project Name and Location (State): Hammond MGP, IN Carrier/Voybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH
North Anasorb	8/7/08	3:00	X					X							Top Flow (L) (Linn) minutes
North Xad															900 2.012 480
East Anasorb															1110 9.325
East Xad															1027 2.140
West Anasorb															1093 2.077
West Xad															118 2.461
South Anasorb															1078 2.246
South Xad															120 2.502
															153 2.403

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comment

QC Requirements (Specify): _____

1. Relinquished By: Joseph Bellamy Date: 8/7/08 Time: 3:20

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Andrew Hammond Date: 8-9-08 Time: 0915

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: Indicates acidity samples w/3 T.A.T. all others T.A.T. 20%

DISTRIBUTION: WHITE - Returned to Client with Report; QUARTARY - Slays with the Sample; PINK - Field Copy

TAL-4142 (0907)

Client: Haley Anderson Project Manager: David Demas Date: 8/8/08 Chain of Custody Number: 388603
 Address: 4912 S. Hohman Telephone Number (Area Code)/Fax Number: 317-407-7670 Lab Number: _____ Page: 1 of 1
 City: Hammond State: IN Zip Code: 46323 Site Contact: J. Ballung Lab Contact: G. FOX
 Project Name and Location (State): Hammond M6P, IN Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
<u>North Anasorb</u>	<u>8/8/08</u>	<u>2:30</u>	<u>X</u>												<u>TOTAL Flow (1 min) min 480</u>
<u>North Xad</u>															
<u>East Anasorb</u>															
<u>East Xad</u>															
<u>West Anasorb</u>															
<u>West Xad</u>															
<u>South Anasorb</u>															
<u>South Xad</u>															
<u>South Anasorb dop</u>															

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comments
 1. Relinquished By: David Demas Date: 8/8/08 Time: 3:00
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 Comments: 1. Analytical Priority Samples W-3 T.A.T. all other T.A.T. 18-60
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TAL-4142 (0907)

Client: **Haley Abrick** Project Manager: **Dave Demas** Chain of Custody Number: **388613**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-457-7670** Lab Number: **011108** Page **1** of **1**
 City: **Hammond** State: **IN** Zip Code: **46323** Site Contact: **S. Bulumy** Lab Contact: **C. Fox**

Project Name and Location (State): **Hammond MOP, IN** Carrier/Waybill Number: **18758-040**
 Contract/Purchase Order/Quote No.: **18758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
NORTH CINCINNATI	8/11/08	1330	X					X							Total Fuel (11mm) Minib S
NORTH XRD															1691 2042 510
EAST CINCINNATI															171 2994
EAST XRD															1085 2127
WEST CINCINNATI															1157 2169
WEST XRD															1280 2509
SOUTH CINCINNATI															1151 2268
SOUTH XRD															1054 2091
															1220 2407

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See comment**

QC Requirements (Specify):
 1. Relinquished By: **S. Bulumy** Date: **8/11/08** Time: **4:00**
 2. Relinquished By: **Archieve** Date: **8/12/08** Time: **0900**
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples w/ 3 T.A.T. all Atlas T.A.T.**
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4142 (0907)

Client: Haley Aldrich Project Manager: David Demas Chain of Custody Number: 369657
 Address: 4912 S Hohman Telephone Number (Area Code)/Fax Number: 317-407-7670 Lab Number: 8/12/08
 City: Hammond State: IN Zip Code: 46323 Site Contact: S. Bellamy Lab Contact: C. Fox Page: 1 of 1

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
North Amserb	8/12/08	5:00	X					X							Total Flow Flow rate 1048 2.184 1898 2.276 1004 2.691 1098 2.276 1191 2.482 1679 2.248 1218 2.537 1158 2.412	Minutes 480
North Kad																
East amserb																
East Kad																
West Amserb																
West Kad																
South Amserb																
South Kad																
Northwest Amserb																
Northwest Kad																

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Sample Disposal
 Return To Client Archive For Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Others: See comments

1. Relinquished By: Samuel Bellamy Date: 8/12/08 Time: 3:30
 2. Relinquished By: Andrew Zimmerman Date: 8/13/08 Time: 0900
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: Indicates Priority samples w/3 T.A.T. all others T.A.T 6.0

DISTRIBUTION: WHITE - Returned to Client with Report, CANARY - Slays with the Sample, PINK - Field Copy

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THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

AL-4142 (0907)

Client: Haley Aldrich Project Manager: Dave Demas Date: 8/16/08 Chain of Custody Number: 369659
 Address: 412 S. Hohman Telephone Number (Area Code)/Fax Number: 317-407-7676 Lab Number: _____ Page _____ of _____
 City: Hammond State: IN Zip Code: 46323 Site Contact: J. Berkmy Lab Contact: C. FOX
 Project Name and Location (State): Hammond M&P - IN Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Soil	Sed	Impres	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North anaserb	8/13/08	3:08	X					X							1076 2.209 488 Total Fluoride (L/min) Minutes
North Xad		3:08													1112 2.277 488
East anaserb		3:09													1089 2.604 489
East Xad		3:09													1114 2.277 489
West anaserb		3:07													1214 2.493 487
West Xad		3:07													1095 2.49 487
South anaserb		3:05													1186 2.445 485
South Xad		3:05													1165 2.403 485
Northwest anaserb		3:08													1076 2.205 488
Northwest Xad		3:08													1076 2.205 488

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comments

1. Relinquished By: Semph Bullen Date: 8/13/08 Time: 3:30 1. Received By: Andrew Jymonsha Date: 8-14-08 Time: 0900
 2. Relinquished By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____

Comments: Indicates Priority Samples W/3 T.A.T all others T.A.T 6.0

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Slays with No Sample; PINK - Field Copy

TAL-4142 (0907)

Client: **Haley Acker** Project Manager: **David Demas** Date: **8/14/08** Chain of Custody Number: **369957**

Address: **4910 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-407-7670** Lab Number: _____ of _____

City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **S. Bellamy** Lab Contact: _____

Project Name and Location (State): **Hammond, IN - IN** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NH4OH
North anasorb	8/14/08	3:09	Y					Y							Flow rate (gpm) 1.366 Minutes 489
North Xad		3:09													1.114 2.279 Minutes 489
East anasorb		3:10													6.074 1.376 Minutes 490
East Xad		3:10													1.117 2.279 Minutes 490
West anasorb		3:09													6.551 1.339 Minutes 489
West Xad		3:09													1.015 2.176 Minutes 489
South anasorb		3:08													5.805 1.196 Minutes 488
South Xad		3:08													1.161 2.376 Minutes 488

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments**

Relinquished By: **S. Bellamy** Date: **8/14/08** Time: **14:00**
 1. Received By: **B. Demas** Date: **8/15/08** Time: **0900**

Relinquished By: _____ Date: _____ Time: _____
 2. Received By: _____ Date: _____ Time: _____

Relinquished By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples W-3-T.A.T. All others T.A.T. 2-02**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

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THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes No

TAL-4124 (1007)

Client: Haley + Aldrich
 Address: 4912 S. Hohman Ave
Hammond
 City: IN State: IN Zip Code: 46320

Project Name and Location (State): 12758-040

Contract/Purchase Order/Quote No. _____

Project Manager: David Demas
 Telephone Number (Area Code)/Fax Number: 317-407-7670

Site Contact: J. Bellamy
 Carrier/Waybill Number: _____

Lab Contact: C. Fox

Date: 8/15/08 Chain of Custody Number: 086513

Page _____ of _____

Analysis (Attach list if more space is needed)

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives				Special Instructions/ Conditions of Receipt		
			Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH		ZnAc	
North Anasorb	8/15/08	3:00	X				X						Totals Flow Fluoride (µMn)
North Xad													1.396
East Anasorb *													2.293
East Xad													1.400
West Anasorb													2.249
West Xad													1.345
South Anasorb *													2.244
South Xad *													1.465
South Anasorb duplicate													2.394
													1.696

Possible-Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other See Comments

QC Requirements (Specify)

1. Relinquished By: J. Bellamy Date: 8/15/08 Time: 3:30

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Ben Date: 8/18/08 Time: 0845

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comments: Indicates Price by Samples W-3-T.A.T. all others T.A.T

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

6.02

ANALYTICAL REPORT

Job#: A08-A133, A08-A135, A08-A194, A08-A196, A08-A252, A08-A253,
A08-A328, A08-A329, A08-A359, A08-A361, A08-A418, A08-A419,
A08-A568, A08-A570, A08-A575, A08-A576, A08-A636, A08-A637,
A08-A688, A08-A689, A08-A752, A08-A754, A08-A933

Project#: NY3A9043

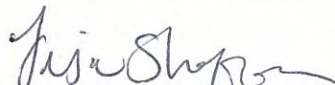
SDG#: A8A036

Site Name: NiSource, Inc.

Task: Hammond, IN - Former MGP

David Demas
 H&A
 12220 N Meridian St., Ste 165
 Camel, IN 46032

TestAmerica Laboratories Inc.



 F Candace L. Fox
 Project Manager

09/18/2008

RECEIVED

SEP 22 2008

HALEY AND ALDRICH

*OP 9/23/08
 Scanned
 to Hammond
 Solid G
 dms*



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SWCS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8A68803	DUP EAST ANASORB	AIR	09/02/2008	15:13	09/03/2008	09:10
A8A13503	EAST ANASORB	AIR	08/19/2008	15:31	08/20/2008	09:10
A8A19403	EAST ANASORB	AIR	08/20/2008	15:23	08/21/2008	09:00
A8A25203	EAST ANASORB	AIR	08/21/2008	14:55	08/22/2008	09:00
A8A32901	EAST ANASORB	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A35903	EAST ANASORB	AIR	08/25/2008	15:17	08/26/2008	09:10
A8A41903	EAST ANASORB	AIR	08/26/2008	15:04	08/27/2008	09:00
A8A57001	EAST ANASORB	AIR	08/28/2008	11:26	08/29/2008	09:00
A8A57603	EAST ANASORB	AIR	08/27/2008	15:10	08/29/2008	09:00
A8A63701	EAST ANASORB	AIR	08/29/2008	11:32	09/02/2008	09:10
A8A68801	EAST ANASORB	AIR	09/02/2008	15:13	09/03/2008	09:10
A8A75201	EAST ANASORB	AIR	09/03/2008	15:17	09/04/2008	10:15
A8A13504	EAST XAD	AIR	08/19/2008	15:31	08/20/2008	09:10
A8A19404	EAST XAD	AIR	08/20/2008	15:23	08/21/2008	09:00
A8A25204	EAST XAD	AIR	08/21/2008	14:55	08/22/2008	09:00
A8A32902	EAST XAD	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A35904	EAST XAD	AIR	08/25/2008	15:17	08/26/2008	09:10
A8A41904	EAST XAD	AIR	08/26/2008	15:04	08/27/2008	09:00
A8A57002	EAST XAD	AIR	08/28/2008	11:26	08/29/2008	09:00
A8A57604	EAST XAD	AIR	08/27/2008	15:10	08/29/2008	09:00
A8A63702	EAST XAD	AIR	08/29/2008	11:32	09/02/2008	09:10
A8A68802	EAST XAD	AIR	09/02/2008	15:13	09/03/2008	09:10
A8A75202	EAST XAD	AIR	09/03/2008	15:17	09/04/2008	10:15
A8A75407	EAST XAD DUP	AIR	09/03/2008	15:17	09/04/2008	10:15
A8A13501	NORTH ANASORB	AIR	08/19/2008	15:31	08/20/2008	09:10
A8A19401	NORTH ANASORB	AIR	08/20/2008	15:22	08/21/2008	09:00
A8A25201	NORTH ANASORB	AIR	08/21/2008	14:54	08/22/2008	09:00
A8A32801	NORTH ANASORB	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A35901	NORTH ANASORB	AIR	08/25/2008	15:12	08/26/2008	09:10
A8A41901	NORTH ANASORB	AIR	08/26/2008	15:01	08/27/2008	09:00
A8A56801	NORTH ANASORB	AIR	08/28/2008	11:23	08/29/2008	09:00
A8A57601	NORTH ANASORB	AIR	08/27/2008	15:08	08/29/2008	09:00
A8A63601	NORTH ANASORB	AIR	08/29/2008	11:35	09/02/2008	09:10
A8A68901	NORTH ANASORB	AIR	09/02/2008	15:10	09/03/2008	09:10
A8A75401	NORTH ANASORB	AIR	09/03/2008	15:08	09/04/2008	10:15
A8A13502	NORTH XAD	AIR	08/19/2008	15:31	08/20/2008	09:10
A8A19402	NORTH XAD	AIR	08/20/2008	15:22	08/21/2008	09:00
A8A25202	NORTH XAD	AIR	08/21/2008	14:54	08/22/2008	09:00
A8A32802	NORTH XAD	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A35902	NORTH XAD	AIR	08/25/2008	15:12	08/26/2008	09:10
A8A41902	NORTH XAD	AIR	08/26/2008	15:01	08/27/2008	09:00
A8A56802	NORTH XAD	AIR	08/28/2008	11:23	08/29/2008	09:00

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8A57602	NORTH XAD	AIR	08/27/2008	15:08	08/29/2008	09:00
A8A63602	NORTH XAD	AIR	08/29/2008	11:35	09/02/2008	09:10
A8A68902	NORTH XAD	AIR	09/02/2008	15:10	09/03/2008	09:10
A8A75402	NORTH XAD	AIR	09/03/2008	15:08	09/04/2008	10:15
A8A68804	OSL ANASORB	AIR	09/02/2008	13:20	09/03/2008	09:10
A8A36103	SOUTH ANA DUPE	AIR	08/25/2008	15:00	08/26/2008	09:10
A8A13301	SOUTH ANASORB	AIR	08/19/2008	15:28	08/20/2008	09:10
A8A19601	SOUTH ANASORB	AIR	08/20/2008	15:22	08/21/2008	09:00
A8A25301	SOUTH ANASORB	AIR	08/21/2008	14:54	08/22/2008	09:00
A8A32905	SOUTH ANASORB	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A36101	SOUTH ANASORB	AIR	08/25/2008	15:00	08/26/2008	09:10
A8A41801	SOUTH ANASORB	AIR	08/26/2008	15:00	08/27/2008	09:00
A8A57004	SOUTH ANASORB	AIR	08/28/2008	11:15	08/29/2008	09:00
A8A57605	SOUTH ANASORB	AIR	08/27/2008	15:06	08/29/2008	09:00
A8A63705	SOUTH ANASORB	AIR	08/29/2008	11:40	09/02/2008	09:10
A8A68905	SOUTH ANASORB	AIR	09/02/2008	15:17	09/03/2008	09:10
A8A75405	SOUTH ANASORB	AIR	09/03/2008	15:13	09/04/2008	10:15
A8A13302	SOUTH XAD	AIR	08/19/2008	15:28	08/20/2008	09:10
A8A19602	SOUTH XAD	AIR	08/20/2008	15:22	08/21/2008	09:00
A8A25302	SOUTH XAD	AIR	08/21/2008	14:54	08/22/2008	09:00
A8A32906	SOUTH XAD	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A36102	SOUTH XAD	AIR	08/25/2008	15:00	08/26/2008	09:10
A8A41802	SOUTH XAD	AIR	08/26/2008	15:00	08/27/2008	09:00
A8A57005	SOUTH XAD	AIR	08/28/2008	11:15	08/29/2008	09:00
A8A57606	SOUTH XAD	AIR	08/27/2008	15:06	08/29/2008	09:00
A8A63706	SOUTH XAD	AIR	08/29/2008	11:40	09/02/2008	09:10
A8A68906	SOUTH XAD	AIR	09/02/2008	15:17	09/03/2008	09:10
A8A75406	SOUTH XAD	AIR	09/03/2008	15:13	09/04/2008	10:15
A8A13505	WEST ANASORB	AIR	08/19/2008	15:28	08/20/2008	09:10
A8A19405	WEST ANASORB	AIR	08/20/2008	15:22	08/21/2008	09:00
A8A25205	WEST ANASORB	AIR	08/21/2008	14:54	08/22/2008	09:00
A8A32903	WEST ANASORB	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A35905	WEST ANASORB	AIR	08/25/2008	15:06	08/26/2008	09:10
A8A41905	WEST ANASORB	AIR	08/26/2008	15:01	08/27/2008	09:00
A8A57003	WEST ANASORB	AIR	08/28/2008	11:20	08/29/2008	09:00
A8A57501	WEST ANASORB	AIR	08/27/2008	15:04	08/29/2008	09:00
A8A63703	WEST ANASORB	AIR	08/29/2008	11:37	09/02/2008	09:10
A8A68903	WEST ANASORB	AIR	09/02/2008	15:11	09/03/2008	09:10
A8A75403	WEST ANASORB	AIR	09/03/2008	15:10	09/04/2008	10:15
A8A93301	WEST ANASORB	AIR	09/08/2008	12:04	09/09/2008	09:00
A8A13506	WEST XAD	AIR	08/19/2008	15:28	08/20/2008	09:10
A8A19406	WEST XAD	AIR	08/20/2008	15:22	08/21/2008	09:00
A8A25206	WEST XAD	AIR	08/21/2008	14:54	08/22/2008	09:00
A8A32904	WEST XAD	AIR	08/22/2008	11:44	08/25/2008	08:45
A8A35906	WEST XAD	AIR	08/25/2008	15:06	08/26/2008	09:10

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8A41906	WEST XAD	AIR	08/26/2008	15:01	08/27/2008	09:00
A8A56803	WEST XAD	AIR	08/28/2008	11:20	08/29/2008	09:00
A8A57502	WEST XAD	AIR	08/27/2008	15:04	08/29/2008	09:00
A8A63704	WEST XAD	AIR	08/29/2008	11:37	09/02/2008	09:10
A8A68904	WEST XAD	AIR	09/02/2008	15:11	09/03/2008	09:10
A8A75404	WEST XAD	AIR	09/03/2008	15:10	09/04/2008	10:15
A8A93302	WEST XAD	AIR	09/08/2008	12:04	09/09/2008	09:00
A8A93303	WEST XAD DUP	AIR	09/08/2008	12:04	09/09/2008	09:00

METHODS SUMMARY

Job#: A08-A133, A08-A135, A08-A194, A08-A196, A08-A252, A08-A253,
A08-A328, A08-A329, A08-A359, A08-A361, A08-A418, A08-A419,
A08-A568, A08-A570, A08-A575, A08-A576, A08-A636, A08-A637,
A08-A688, A08-A689, A08-A752, A08-A754, A08-A933

Project#: NY3A9043
SDG#: A8A036
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL</u>
	<u>METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A08-A133, A08-A135, A08-A194, A08-A196, A08-A252, A08-A253, A08-A328, A08-A329, A08-A359, A08-A361, A08-A418, A08-A419, A08-A568, A08-A570, A08-A575, A08-A576, A08-A636, A08-A637, A08-A688, A08-A689, A08-A752, A08-A754, A08-A933

Project#: NY3A9043
SDG#: A8A036
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-A133

Sample Cooler(s) were received at the following temperature(s); 3.4 °C
All samples were received in good condition.

A08-A135

Sample Cooler(s) were received at the following temperature(s); 3.4 °C
All samples were received in good condition.

A08-A194

Sample Cooler(s) were received at the following temperature(s); 3.3 °C
All samples were received in good condition.

A08-A196

Sample Cooler(s) were received at the following temperature(s); 3.3 °C
All samples were received in good condition.

A08-A252

Sample Cooler(s) were received at the following temperature(s); 3.0 °C
All samples were received in good condition.

A08-A253

Sample Cooler(s) were received at the following temperature(s); 3.0 °C
All samples were received in good condition.

A08-A328

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-A329

Sample Cooler(s) were received at the following temperature(s); 6.0 °C
All samples were received in good condition.

A08-A359

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-A361

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-A418

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-A419

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-A568

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A570

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A575

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A576

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A636

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
All samples were received in good condition.

A08-A637

Sample Cooler(s) were received at the following temperature(s); AMBIENT °C
All samples were received in good condition.

A08-A688

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A689

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A752

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A754

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-A933

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

GC Volatile Data

For method 5515, some analytes exhibited positive bias and a % difference result greater than 15% in the mid and ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, some analytes exhibited positive bias and a % difference result greater than 15% in the mid and ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, some analytes exhibited positive bias and a % difference result greater than 15% in the mid and ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, some analytes exhibited positive bias and a % difference result greater than 15% in the mid and ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, most analyte exhibited positive bias and a % difference result greater than 15% in the ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, most analyte exhibited positive bias and a % difference result greater than 15% in the mid and ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, most analyte exhibited positive bias and a % difference result greater than 15% in the ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, all Analytes exhibited positive bias and a % difference result greater than 15% in the mid and ending continuing calibration verification shot on 09-05-08. No corrective action was taken, all field samples are non-detect for these analytes.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
SOUTH ANASORB	A8A13301	1501	2.00	013
NORTH ANASORB	A8A13501	1501	2.00	013
EAST ANASORB	A8A13503	1501	2.00	013
WEST ANASORB	A8A13505	1501	2.00	013
NORTH ANASORB	A8A19401	1501	2.00	013
EAST ANASORB	A8A19403	1501	2.00	013
WEST ANASORB	A8A19405	1501	2.00	013
SOUTH ANASORB	A8A19601	1501	2.00	013
NORTH ANASORB	A8A25201	1501	2.00	013
EAST ANASORB	A8A25203	1501	2.00	013
WEST ANASORB	A8A25205	1501	2.00	013
SOUTH ANASORB	A8A25301	1501	2.00	013
NORTH ANASORB	A8A32801	1501	2.00	013
EAST ANASORB	A8A32901	1501	2.00	013
WEST ANASORB	A8A32903	1501	2.00	013
SOUTH ANASORB	A8A32905	1501	2.00	013
NORTH ANASORB	A8A35901	1501	2.00	013
EAST ANASORB	A8A35903	1501	2.00	013
WEST ANASORB	A8A35905	1501	2.00	013
SOUTH ANASORB	A8A36101	1501	2.00	013
SOUTH ANA DUPE	A8A36103	1501	2.00	013
SOUTH ANASORB	A8A41801	1501	2.00	013
NORTH ANASORB	A8A41901	1501	2.00	013
EAST ANASORB	A8A41903	1501	2.00	013
WEST ANASORB	A8A41905	1501	2.00	013
NORTH ANASORB	A8A56801	1501	2.00	013
EAST ANASORB	A8A57001	1501	2.00	013
WEST ANASORB	A8A57003	1501	2.00	013
SOUTH ANASORB	A8A57004	1501	2.00	013
WEST ANASORB	A8A57501	1501	2.00	013
NORTH ANASORB	A8A57601	1501	2.00	013
EAST ANASORB	A8A57603	1501	2.00	013
SOUTH ANASORB	A8A57605	1501	2.00	013
NORTH ANASORB	A8A63601	1501	2.00	013
EAST ANASORB	A8A63701	1501	2.00	013
WEST ANASORB	A8A63703	1501	2.00	013
SOUTH ANASORB	A8A63705	1501	2.00	013
EAST ANASORB	A8A68801	1501	2.00	013
DUP EAST ANASORB	A8A68803	1501	2.00	013
OSL ANASORB	A8A68804	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
NORTH ANASORB	A8A68901	1501	2.00	013
WEST ANASORB	A8A68903	1501	2.00	013
SOUTH ANASORB	A8A68905	1501	2.00	013
EAST ANASORB	A8A75201	1501	2.00	013
NORTH ANASORB	A8A75401	1501	2.00	013
WEST ANASORB	A8A75403	1501	2.00	013
SOUTH ANASORB	A8A75405	1501	2.00	013
WEST ANASORB	A8A93301	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other



DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

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NIOSH METHOD 1501 AROMATIC HYDROCARBONS

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Client ID Job No Sample Date	Lab ID	DUP EAST ANASORB A08-A688 09/02/2008	A8A68803	EAST ANASORB A08-A135 08/19/2008	A8A13503	EAST ANASORB A08-A194 08/20/2008	A8A19403	EAST ANASORB A08-A252 08/21/2008	A8A25203
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	7.6	ND	5.8	ND	5.8	ND	6.4
Ethylbenzene	UG/M3	ND	7.6	ND	5.8	ND	5.8	ND	6.4
m/p-Xylenes	UG/M3	ND	7.6	ND	5.8	ND	5.8	ND	6.4
o-Xylene	UG/M3	ND	7.6	ND	5.8	ND	5.8	ND	6.4
Toluene	UG/M3	ND	7.6	ND	5.8	ND	5.8	ND	6.4

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-A329 08/22/2008	A8A32901	EAST ANASORB A08-A359 08/25/2008	A8A35903	EAST ANASORB A08-A419 08/26/2008	A8A41903	EAST ANASORB A08-A570 08/28/2008	A8A57001
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	8.2	ND	5.6	ND	6.0	ND	8.9
Ethylbenzene	UG/M3	ND	8.2	ND	5.6	ND	6.0	ND	8.9
m/p-Xylenes	UG/M3	ND	8.2	ND	5.6	ND	6.0	ND	8.9
o-Xylene	UG/M3	ND	8.2	ND	5.6	ND	6.0	ND	8.9
Toluene	UG/M3	ND	8.2	ND	5.6	ND	6.0	ND	8.9

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-A576 08/27/2008	A8A57603	EAST ANASORB A08-A637 08/29/2008	A8A63701	EAST ANASORB A08-A688 09/02/2008	A8A68801	EAST ANASORB A08-A752 09/03/2008	A8A75201
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.3	ND	9.0	ND	5.4	ND	6.3
Ethylbenzene	UG/M3	ND	5.3	ND	9.0	ND	5.4	ND	6.3
m/p-Xylenes	UG/M3	ND	5.3	ND	9.0	ND	5.4	ND	6.3
o-Xylene	UG/M3	ND	5.3	ND	9.0	ND	5.4	ND	6.3
Toluene	UG/M3	ND	5.3	ND	9.0	ND	5.4	ND	6.3

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NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-A135 08/19/2008	A8A13501	NORTH ANASORB A08-A194 08/20/2008	A8A19401	NORTH ANASORB A08-A252 08/21/2008	A8A25201	NORTH ANASORB A08-A328 08/22/2008	A8A32801
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.6	ND	5.7	ND	6.0	ND	7.7
Ethylbenzene	UG/M3	ND	5.6	ND	5.7	ND	6.0	ND	7.7
m/p-Xylenes	UG/M3	ND	5.6	ND	5.7	ND	6.0	ND	7.7
o-Xylene	UG/M3	ND	5.6	ND	5.7	ND	6.0	ND	7.7
Toluene	UG/M3	ND	5.6	ND	5.7	ND	6.0	ND	7.7

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-A359 08/25/2008	A8A35901	NORTH ANASORB A08-A419 08/26/2008	A8A41901	NORTH ANASORB A08-A568 08/28/2008	A8A56801	NORTH ANASORB A08-A576 08/27/2008	A8A57601
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.4	ND	5.8	ND	9.6	ND	5.4
Ethylbenzene	UG/M3	ND	5.4	ND	5.8	ND	9.6	ND	5.4
m/p-Xylenes	UG/M3	ND	5.4	ND	5.8	ND	9.6	ND	5.4
o-Xylene	UG/M3	ND	5.4	ND	5.8	ND	9.6	ND	5.4
Toluene	UG/M3	ND	5.4	ND	5.8	ND	9.6	ND	5.4

Client ID Job No Sample Date	Lab ID	NORTH ANASORB A08-A636 08/29/2008	A8A63601	NORTH ANASORB A08-A689 09/02/2008	A8A68901	NORTH ANASORB A08-A754 09/03/2008	A8A75401	OSL ANASORB A08-A688 09/02/2008	A8A68804
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	7.9	ND	5.6	ND	5.4	ND	4.5
Ethylbenzene	UG/M3	ND	7.9	ND	5.6	ND	5.4	ND	4.5
m/p-Xylenes	UG/M3	ND	7.9	ND	5.6	ND	5.4	ND	4.5
o-Xylene	UG/M3	ND	7.9	ND	5.6	ND	5.4	ND	4.5
Toluene	UG/M3	ND	7.9	ND	5.6	ND	5.4	ND	4.5

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Client ID	Lab ID	SOUTH ANA DUPE	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Job No	Sample Date	A08-A361	A08-A133	A08-A196	A08-A253	A08-A196	A08-A196	A08-A196	A08-A196	A08-A196	A08-A196	A08-A196	A08-A196
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	4.4	ND	5.3	ND	5.3	ND	5.4	ND	5.4	ND	5.8
Ethylbenzene	UG/M3	ND	4.4	ND	5.3	ND	5.3	ND	5.4	ND	5.4	ND	5.8
m/p-Xylenes	UG/M3	ND	4.4	ND	5.3	ND	5.3	ND	5.4	ND	5.4	ND	5.8
o-Xylene	UG/M3	ND	4.4	ND	5.3	ND	5.3	ND	5.4	ND	5.4	ND	5.8
Toluene	UG/M3	ND	4.4	ND	5.3	ND	5.3	ND	5.4	ND	5.4	ND	5.8

Client ID	Lab ID	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Job No	Sample Date	A08-A329	A08-A361	A08-A418	A08-A570	A08-A418	A08-A570	A08-A418	A08-A418	A08-A570	A08-A570	A08-A418	A08-A570
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	7.4	ND	5.2	ND	5.2	ND	5.5	ND	5.5	ND	11
Ethylbenzene	UG/M3	ND	7.4	ND	5.2	ND	5.2	ND	5.5	ND	5.5	ND	11
m/p-Xylenes	UG/M3	ND	7.4	ND	5.2	ND	5.2	ND	5.5	ND	5.5	ND	11
o-Xylene	UG/M3	ND	7.4	ND	5.2	ND	5.2	ND	5.5	ND	5.5	ND	11
Toluene	UG/M3	ND	7.4	ND	5.2	ND	5.2	ND	5.5	ND	5.5	ND	11

Client ID	Lab ID	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Job No	Sample Date	A08-A576	A08-A637	A08-A689	A08-A754	A08-A689	A08-A754	A08-A637	A08-A637	A08-A689	A08-A754	A08-A689	A08-A754
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.2	ND	9.7	ND	9.7	ND	6.4	ND	6.4	ND	6.2
Ethylbenzene	UG/M3	ND	5.2	ND	9.7	ND	9.7	ND	6.4	ND	6.4	ND	6.2
m/p-Xylenes	UG/M3	ND	5.2	ND	9.7	ND	9.7	ND	6.4	ND	6.4	ND	6.2
o-Xylene	UG/M3	ND	5.2	ND	9.7	ND	9.7	ND	6.4	ND	6.4	ND	6.2
Toluene	UG/M3	ND	5.2	ND	9.7	ND	9.7	ND	6.4	ND	6.4	ND	6.2

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Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-A135 08/19/2008	A8A13505	WEST ANASORB A08-A194 08/20/2008	A8A19405	WEST ANASORB A08-A252 08/21/2008	A8A25205	WEST ANASORB A08-A329 08/22/2008	A8A32903
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.8	ND	5.8	ND	6.2	ND	8.0
Ethylbenzene	UG/M3	ND	5.8	ND	5.8	ND	6.2	ND	8.0
m/p-Xylenes	UG/M3	ND	5.8	ND	5.8	ND	6.2	ND	8.0
o-Xylene	UG/M3	ND	5.8	ND	5.8	ND	6.2	ND	8.0
Toluene	UG/M3	ND	5.8	ND	5.8	ND	6.2	ND	8.0

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-A359 08/25/2008	A8A35905	WEST ANASORB A08-A419 08/26/2008	A8A41905	WEST ANASORB A08-A570 08/28/2008	A8A57003	WEST ANASORB A08-A575 08/27/2008	A8A57501
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.7	ND	5.7	ND	10	ND	5.7
Ethylbenzene	UG/M3	ND	5.7	ND	5.7	ND	10	ND	5.7
m/p-Xylenes	UG/M3	ND	5.7	ND	5.7	ND	10	ND	5.7
o-Xylene	UG/M3	ND	5.7	ND	5.7	ND	10	ND	5.7
Toluene	UG/M3	ND	5.7	ND	5.7	ND	10	ND	5.7

Client ID Job No Sample Date	Lab ID	WEST ANASORB A08-A637 08/29/2008	A8A63703	WEST ANASORB A08-A689 09/02/2008	A8A68903	WEST ANASORB A08-A754 09/03/2008	A8A75403	WEST ANASORB A08-A933 09/08/2008	A8A93301
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	8.2	ND	6.6	ND	6.4	ND	8.0
Ethylbenzene	UG/M3	ND	8.2	ND	6.6	ND	6.4	ND	8.0
m/p-Xylenes	UG/M3	ND	8.2	ND	6.6	ND	6.4	ND	8.0
o-Xylene	UG/M3	ND	8.2	ND	6.6	ND	6.4	ND	8.0
Toluene	UG/M3	ND	8.2	ND	6.6	ND	6.4	ND	8.0

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Client ID Job No Sample Date	Lab ID	EAST XAD A08-A135 08/19/2008	A8A13504	EAST XAD A08-A194 08/20/2008	A8A19404	EAST XAD A08-A252 08/21/2008	A8A25204	EAST XAD A08-A329 08/22/2008	A8A32902
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Acenaphthylene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Anthracene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Benzo(a)anthracene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Benzo(a)pyrene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Benzo(b)fluoranthene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Benzo(ghi)perylene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Benzo(k)fluoranthene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Chrysene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Dibenz(a,h)anthracene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Fluoranthene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Fluorene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Naphthalene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Phenanthrene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1
Pyrene	UG/M3	ND	4.4	ND	4.4	ND	4.7	ND	6.1

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Client ID Job No Sample Date	Lab ID	EAST XAD A08-A359 08/25/2008	A8A35904	EAST XAD A08-A419 08/26/2008	A8A41904	EAST XAD A08-A570 08/28/2008	A8A57002	EAST XAD A08-A576 08/27/2008	A8A57604
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Acenaphthylene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Anthracene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Benzo(a)anthracene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Benzo(a)pyrene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Benzo(b)fluoranthene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Benzo(ghi)perylene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Benzo(k)fluoranthene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Chrysene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Dibenz(a,h)anthracene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Fluoranthene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Fluorene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Naphthalene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Phenanthrene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5
Pyrene	UG/M3	ND	4.2	ND	4.5	ND	7.7	ND	4.5

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Client ID Job No Sample Date	Lab ID	EAST XAD A08-A637 08/29/2008	A8A63702	EAST XAD A08-A688 09/02/2008	A8A68802	EAST XAD A08-A752 09/03/2008	A8A75202	EAST XAD DUP A08-A754 09/03/2008	A8A75407
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Acenaphthylene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Anthracene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Benzo(a)anthracene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Benzo(a)pyrene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Benzo(b)fluoranthene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Benzo(ghi)perylene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Benzo(k)fluoranthene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Chrysene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Dibenz(a,h)anthracene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Fluoranthene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Fluorene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Indeno(1,2,3-cd)pyrene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Naphthalene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Phenanthrene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3
Pyrene	UG/M3	ND	6.6	ND	4.0	ND	3.8	ND	6.3

Client ID Job No Sample Date	Lab ID	NORTH XAD A08-A135 08/19/2008	A8A13502	NORTH XAD A08-A194 08/20/2008	A8A19402	NORTH XAD A08-A252 08/21/2008	A8A25202	NORTH XAD A08-A328 08/22/2008	A8A32802
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Acenaphthylene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Anthracene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Benzo(a)anthracene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Benzo(a)pyrene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Benzo(b)fluoranthene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Benzo(ghi)perylene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Benzo(k)fluoranthene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Chrysene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Dibenz(a,h)anthracene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Fluoranthene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Fluorene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Naphthalene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Phenanthrene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0
Pyrene	UG/M3	ND	4.3	ND	4.4	ND	4.7	ND	6.0

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Client ID	Lab ID	North XAD A08-A359 08/25/2008	North XAD A08-A419 08/26/2008	North XAD A8A41902	North XAD A08-A568 08/28/2008	North XAD A8A56802	North XAD A08-A576 08/27/2008	A8A57602
Analyte	Units	Sample Value	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Acenaphthylene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Anthracene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Benzo(a)anthracene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Benzo(a)pyrene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Benzo(b)fluoranthene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Benzo(ghi)perylene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Benzo(k)fluoranthene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Chrysene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Dibenzo(a,h)anthracene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Fluoranthene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Fluorene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Indeno(1,2,3-cd)pyrene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Naphthalene	UG/M3	ND	ND	4.4	8.8	8.4	ND	4.7
Phenanthrene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7
Pyrene	UG/M3	ND	ND	4.4	ND	8.4	ND	4.7

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Client ID	Lab ID	North XAD A08-A636 08/29/2008	North XAD A08-A689 09/02/2008	North XAD A8A68902	North XAD A08-A754 09/03/2008	North XAD A8A75402	South XAD A08-A733 08/19/2008	A8A13302
Analyte	Units	Sample Value	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Acenaphthylene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Anthracene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Benzo(a)anthracene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Benzo(a)pyrene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Benzo(b)fluoranthene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Benzo(ghi)perylene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Benzo(k)fluoranthene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Chrysene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Dibenzo(a,h)anthracene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Fluoranthene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Fluorene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Indeno(1,2,3-cd)pyrene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Naphthalene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Phenanthrene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2
Pyrene	UG/M3	ND	ND	6.8	ND	4.6	ND	4.2

Client ID Job No Sample Date	Lab ID	SOUTH XAD A08-A196 08/20/2008	A8A19602	SOUTH XAD A08-A253 08/21/2008	A8A25302	SOUTH XAD A08-A329 08/22/2008	A8A32906	SOUTH XAD A08-A361 08/25/2008	A8A36102
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Acenaphthylene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Anthracene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Benzo(a)anthracene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Benzo(a)pyrene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Benzo(b)fluoranthene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Benzo(ghi)perylene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Benzo(k)fluoranthene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Chrysene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Dibenz(a,h)anthracene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Fluoranthene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Fluorene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Naphthalene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Phenanthrene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0
Pyrene	UG/M3	ND	4.2	ND	4.4	ND	5.6	ND	4.0

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Client ID Job No Sample Date	Lab ID	SOUTH XAD A08-A418 08/26/2008	A8A41802	SOUTH XAD A08-A570 08/28/2008	A8A57005	SOUTH XAD A08-A576 08/27/2008	A8A57606	SOUTH XAD A08-A637 08/29/2008	A8A63706
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Acenaphthylene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Anthracene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Benzo(a)anthracene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Benzo(a)pyrene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Benzo(b)fluoranthene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Benzo(ghi)perylene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Benzo(k)fluoranthene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Chrysene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Dibenz(a,h)anthracene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Fluoranthene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Fluorene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Naphthalene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Phenanthrene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2
Pyrene	UG/M3	ND	4.1	ND	7.6	ND	4.1	ND	6.2

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Client ID Job No Sample Date	Lab ID	Units	SOUTH XAD A08-A689 09/02/2008	A8A68906	SOUTH XAD A08-A754 09/03/2008	A8A75406	WEST XAD A08-A135 08/19/2008	A8A13506	WEST XAD A08-A194 08/20/2008	A8A19406
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Acenaphthylene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Anthracene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Benzo(a)anthracene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Benzo(a)pyrene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Benzo(b)fluoranthene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Benzo(ghi)perylene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Benzo(k)fluoranthene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Chrysene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Dibenzo(a,h)anthracene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Fluoranthene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Fluorene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Indeno(1,2,3-cd)pyrene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Naphthalene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Phenanthrene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5
Pyrene		UG/M3	ND	3.9	ND	4.6	ND	4.4	ND	4.5

Client ID Job No Sample Date	Lab ID	Units	WEST XAD A08-A252 08/21/2008	A8A25206	WEST XAD A08-A329 08/22/2008	A8A32904	WEST XAD A08-A359 08/25/2008	A8A35906	WEST XAD A08-A419 08/26/2008	A8A41906
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Acenaphthylene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Anthracene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Benzo(a)anthracene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Benzo(a)pyrene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Benzo(b)fluoranthene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Benzo(ghi)perylene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Benzo(k)fluoranthene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Chrysene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Dibenzo(a,h)anthracene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Fluoranthene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Fluorene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Indeno(1,2,3-cd)pyrene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Naphthalene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Phenanthrene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8
Pyrene		UG/M3	ND	4.8	ND	6.1	ND	4.2	ND	4.8

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Client ID Job No Sample Date	Lab ID	WEST XAD A08-A568 08/28/2008	A8A56803	WEST XAD A08-A575 08/27/2008	A8A57502	WEST XAD A08-A637 08/29/2008	A8A63704	WEST XAD A08-A689 09/02/2008	A8A68904
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Acenaphthylene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Anthracene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Benzo(a)anthracene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Benzo(a)pyrene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Benzo(b)fluoranthene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Benzo(ghi)perylene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Benzo(k)fluoranthene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Chrysene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Di-benzo(a,h)anthracene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Fluoranthene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Fluorene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Indeno(1,2,3-cd)pyrene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Naphthalene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Phenanthrene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9
Pyrene	UG/M3	ND	7.6	ND	4.2	ND	6.2	ND	4.9

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Client ID Job No Sample Date	Lab ID	WEST XAD A08-A754 09/03/2008	A8A75404	WEST XAD A08-A933 09/08/2008	A8A93302	WEST XAD DUP A08-A933 09/08/2008	A8A93303
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Acenaphthylene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Anthracene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Benzo(a)anthracene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Benzo(a)pyrene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Chrysene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Di-benzo(a,h)anthracene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Fluoranthene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Fluorene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Naphthalene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Phenanthrene	UG/M3	ND	4.8	ND	5.0	ND	5.0
Pyrene	UG/M3	ND	4.8	ND	5.0	ND	5.0

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Client ID Job No Sample Date	Lab ID	Method Blank A08-A196		Method Blank A08-A329		Method Blank A08-A419		Method Blank A08-A752	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		UG/M3	4.0	ND	4.0	ND	8.0	ND	4.0
		UG/M3	4.0	ND	4.0	8.0	ND	4.0	
		UG/M3	4.0	ND	4.0	8.0	ND	4.0	
		UG/M3	4.0	ND	4.0	8.0	ND	4.0	

Client ID Job No Sample Date	Lab ID	Method Blank A08-A933		Method Blank(VBLK_) A08-A568		Method Blank(VBLK_) A08-A637		Method Blank(VBLK_) A08-A6903	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene Ethylbenzene m/p-Xylenes o-Xylene Toluene		UG/M3	4.0	ND	4.0	ND	4.0	NA	4.0
		UG/M3	4.0	ND	4.0	4.0	NA	4.0	
		UG/M3	4.0	ND	4.0	4.0	NA	4.0	
		UG/M3	4.0	ND	4.0	4.0	NA	4.0	

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Client ID Job No Sample Date	Lab ID	Method Blank A08-A196	A8B2113703	Method Blank A08-A689	A8B2186703	Method Blank A08-A933	A8B2196803	Method Blank(VBLK_) A08-A329	A8B2127803
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chrysene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluorene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Naphthalene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Phenanthrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0

Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A08-A575	A8B2155703	Method Blank(VBLK_) A08-A329	A8B2196803	Method Blank(VBLK_) A08-A329	A8B2127803
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	NA		NA	
Acenaphthylene	UG/M3	ND	5.0	NA		NA	
Anthracene	UG/M3	ND	5.0	NA		NA	
Benzo(a)anthracene	UG/M3	ND	5.0	NA		NA	
Benzo(a)pyrene	UG/M3	ND	5.0	NA		NA	
Benzo(b)fluoranthene	UG/M3	ND	5.0	NA		NA	
Benzo(ghi)perylene	UG/M3	ND	5.0	NA		NA	
Benzo(k)fluoranthene	UG/M3	ND	5.0	NA		NA	
Chrysene	UG/M3	ND	5.0	NA		NA	
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	NA		NA	
Fluoranthene	UG/M3	ND	5.0	NA		NA	
Fluorene	UG/M3	ND	5.0	NA		NA	
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	NA		NA	
Naphthalene	UG/M3	ND	5.0	NA		NA	
Phenanthrene	UG/M3	ND	5.0	NA		NA	
Pyrene	UG/M3	ND	5.0	NA		NA	

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NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-A133 A8B2112501	Matrix Spike Blank A08-A252 A8B2120401	Matrix Spike Blank A08-A418 A8B2143701	Matrix Spike Blank A08-A570 A8B2156701
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	34	8.0
Ethylbenzene	UG/M3	18	4.0	35	8.0
m/p-Xylenes	UG/M3	36	4.0	70	8.0
o-Xylene	UG/M3	18	4.0	34	8.0
Toluene	UG/M3	18	4.0	35	8.0
				17	4.0
				17	4.0
				34	4.0
				17	4.0
				17	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-A637 A8B2164901	Matrix Spike Blank A08-A688 A8B2189701	Matrix Spike Blank A08-A933 A8B2223601	Matrix Spike Blk Dup A08-A196 A8B2112502
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	17	4.0
Ethylbenzene	UG/M3	18	4.0	17	4.0
m/p-Xylenes	UG/M3	35	4.0	34	4.0
o-Xylene	UG/M3	17	4.0	17	4.0
Toluene	UG/M3	18	4.0	17	4.0
				18	4.0
				18	4.0
				36	4.0
				18	4.0
				18	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-A329 A8B2120402	Matrix Spike Blk Dup A08-A419 A8B2143702	Matrix Spike Blk Dup A08-A570 A8B2156702	Matrix Spike Blk Dup A08-A637 A8B2164902
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	17	4.0
Ethylbenzene	UG/M3	18	4.0	17	4.0
m/p-Xylenes	UG/M3	36	4.0	34	4.0
o-Xylene	UG/M3	18	4.0	17	4.0
Toluene	UG/M3	18	4.0	17	4.0
				18	4.0
				19	4.0
				37	4.0
				18	4.0
				19	4.0

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Date: 09/18/2008
 Time: 07:46:38

NiSource, Inc.
 Hammond, IN - Former MGP
 NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Rept: AN0326

Client ID	Lab ID	Matrix Spike Blk Dup	Matrix Spike Blk Dup	Matrix Spike Blk Dup	Matrix Spike Blk Dup	Matrix Spike Blk Dup	Matrix Spike Blk Dup
Job No	Sample Date	A08-A752	A8B2189702	A08-A933	A8B2223602	A08-A933	A8B2223602
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	18	4.0	NA	NA
Ethylbenzene	UG/M3	19	4.0	18	4.0	NA	NA
m/p-Xylenes	UG/M3	37	4.0	37	4.0	NA	NA
o-Xylene	UG/M3	18	4.0	18	4.0	NA	NA
Toluene	UG/M3	19	4.0	18	4.0	NA	NA

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Date: 09/18/2008
Time: 07:46:38

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-A194	Matrix Spike Blank A08-A329	Matrix Spike Blank A8B2127801	Matrix Spike Blank A08-A418	Matrix Spike Blank A8B2155701	Matrix Spike Blank A08-A689
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	9.9	5.0	11	5.0	9.6	5.0
Acenaphthylene	UG/M3	10	5.0	11	5.0	9.6	5.0
Anthracene	UG/M3	10	5.0	11	5.0	9.6	5.0
Benzo(a)anthracene	UG/M3	10	5.0	11	5.0	10	5.0
Benzo(a)pyrene	UG/M3	10	5.0	11	5.0	11	5.0
Benzo(b)fluoranthene	UG/M3	10	5.0	11	5.0	10	5.0
Benzo(ghi)perylene	UG/M3	10	5.0	11	5.0	10	5.0
Benzo(k)fluoranthene	UG/M3	10	5.0	11	5.0	10	5.0
Chrysene	UG/M3	10	5.0	11	5.0	8.2	5.0
Dibenzo(a,h)anthracene	UG/M3	10	5.0	11	5.0	9.9	5.0
Fluoranthene	UG/M3	10	5.0	11	5.0	9.7	5.0
Fluorene	UG/M3	10	5.0	11	5.0	9.6	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	10	5.0	11	5.0	10	5.0
Naphthalene	UG/M3	9.9	5.0	11	5.0	9.7	5.0
Phenanthrene	UG/M3	10	5.0	11	5.0	9.6	5.0
Pyrene	UG/M3	10	5.0	11	5.0	9.9	5.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-A752	Matrix Spike Blk Dup A8B2196801	Matrix Spike Blk Dup A08-A133	Matrix Spike Blk Dup A8B2113702	Matrix Spike Blk Dup A08-A329	Matrix Spike Blk Dup A8B2127802
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	10	5.0	11	5.0	11	5.0
Acenaphthylene	UG/M3	10	5.0	11	5.0	11	5.0
Anthracene	UG/M3	9.9	5.0	11	5.0	11	5.0
Benzo(a)anthracene	UG/M3	9.6	5.0	12	5.0	11	5.0
Benzo(a)pyrene	UG/M3	9.8	5.0	11	5.0	11	5.0
Benzo(b)fluoranthene	UG/M3	9.6	5.0	11	5.0	11	5.0
Benzo(ghi)perylene	UG/M3	9.6	5.0	12	5.0	11	5.0
Benzo(k)fluoranthene	UG/M3	9.6	5.0	12	5.0	11	5.0
Chrysene	UG/M3	8.5	5.0	12	5.0	11	5.0
Dibenzo(a,h)anthracene	UG/M3	9.5	5.0	12	5.0	11	5.0
Fluoranthene	UG/M3	9.7	5.0	11	5.0	11	5.0
Fluorene	UG/M3	10	5.0	11	5.0	11	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	9.5	5.0	12	5.0	11	5.0
Naphthalene	UG/M3	10	5.0	11	5.0	11	5.0
Phenanthrene	UG/M3	10	5.0	11	5.0	11	5.0
Pyrene	UG/M3	9.9	5.0	11	5.0	11	5.0

Date: 09/18/2008
Time: 07:46:38

Rept: AN0326

NiSource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client ID	Lab ID	Units	Matrix Spike Blk Dup A08-A636	Matrix Spike Blk Dup A8B2186702	Matrix Spike Blk Dup A08-A933	Matrix Spike Blk Dup A8B2196802	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte			Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene		UG/M3	10	5.0	9.4	5.0	NA	5.0	NA	5.0	NA	5.0
Acenaphthylene		UG/M3	10	5.0	9.4	5.0	NA	5.0	NA	5.0	NA	5.0
Anthracene		UG/M3	11	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)anthracene		UG/M3	11	5.0	9.6	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(a)pyrene		UG/M3	11	5.0	10	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(b)fluoranthene		UG/M3	11	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(ghi)perylene		UG/M3	11	5.0	9.9	5.0	NA	5.0	NA	5.0	NA	5.0
Benzo(k)fluoranthene		UG/M3	11	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0
Chrysene		UG/M3	9.8	5.0	8.4	5.0	NA	5.0	NA	5.0	NA	5.0
Dibenzo(a,h)anthracene		UG/M3	11	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0
Fluoranthene		UG/M3	11	5.0	9.6	5.0	NA	5.0	NA	5.0	NA	5.0
Fluorene		UG/M3	11	5.0	9.6	5.0	NA	5.0	NA	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene		UG/M3	11	5.0	9.8	5.0	NA	5.0	NA	5.0	NA	5.0
Naphthalene		UG/M3	10	5.0	9.4	5.0	NA	5.0	NA	5.0	NA	5.0
Phenanthrene		UG/M3	11	5.0	9.8	5.0	NA	5.0	NA	5.0	NA	5.0
Pyrene		UG/M3	11	5.0	9.7	5.0	NA	5.0	NA	5.0	NA	5.0

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SDG: A8A036
 Client Sample ID: Method Blank
 Lab Sample ID: A8B2112503

Matrix Spike Blank
 A8B2112501

Matrix Spike Blk Dup
 A8B2112502

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery		QC LIMITS RPD	REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	SB	SBD		
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	17.8	18.0	20.0	20.0	89	90	90	1	30.0	63-119
Toluene	UG/M3	18.2	18.3	20.0	20.0	91	92	92	1	30.0	70-126
Ethylbenzene	UG/M3	18.0	18.2	20.0	20.0	90	91	91	1	30.0	72-129
m/p-Xylenes	UG/M3	35.7	36.0	40.0	40.0	89	90	90	1	30.0	72-128
o-Xylene	UG/M3	17.6	17.7	20.0	20.0	88	88	88	0	30.0	71-126

SDG: A8A036

Client Sample ID: Method Blank
Lab Sample ID: A8B2113703

Matrix Spike Blank
A8B2113701

Matrix Spike Blk Dup
A8B2113702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		Avg	% RPD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	10.2	11.7	10.0	10.0	102	117	110	14	30.0	34-123
Benzo(a)anthracene	UG/M3	10.2	11.5	10.0	10.0	102	115	109	12	30.0	54-118
Anthracene	UG/M3	10.0	11.3	10.0	10.0	101	114	108	12	30.0	61-119
Acenaphthene	UG/M3	9.93	11.3	10.0	10.0	99	114	107	14	30.0	56-122
Naphthalene	UG/M3	9.90	11.2	10.0	10.0	99	112	106	12	30.0	56-121
Chrysene	UG/M3	10.2	11.6	10.0	10.0	103	116	110	12	30.0	52-119
Benzo(a)pyrene	UG/M3	10.0	11.4	10.0	10.0	101	115	108	13	30.0	45-120
Pyrene	UG/M3	10.2	11.2	10.0	10.0	102	113	108	10	30.0	55-120
Acenaphthylene	UG/M3	10.0	11.4	10.0	10.0	100	114	107	13	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	10.2	11.6	10.0	10.0	102	116	109	13	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.0	11.4	10.0	10.0	100	115	108	14	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.0	11.5	10.0	10.0	101	115	108	13	30.0	49-115
Phenanthrene	UG/M3	10.0	11.3	10.0	10.0	100	113	107	12	30.0	60-120
Fluorene	UG/M3	10.0	11.4	10.0	10.0	100	114	107	13	30.0	59-121
Fluoranthene	UG/M3	9.99	11.3	10.0	10.0	100	114	107	13	30.0	55-119
Benzo(ghi)perylene	UG/M3	10.2	11.5	10.0	10.0	102	115	109	12	30.0	29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: A8A036
 Client Sample ID: Method Blank
 Lab Sample ID: A8B2120403

Matrix Spike Blank
 A8B2120401

Matrix Spike Blk Dup
 A8B2120402

Analyte	Units of Measure	Concentration				Spike Amount		% Recovery		QC LIMITS RPD	REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	SB	Avg		
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	17.5	17.8	20.0	20.0	88	89	89	89	30.0	63-119
Toluene	UG/M3	18.0	18.2	20.0	20.0	90	91	91	91	30.0	70-126
Ethylbenzene	UG/M3	17.8	18.1	20.0	20.0	89	91	91	90	30.0	72-129
m/p-Xylenes	UG/M3	35.5	36.1	40.0	40.0	89	90	90	90	30.0	72-128
o-Xylene	UG/M3	17.5	17.8	20.0	20.0	88	89	89	89	30.0	71-126

SDG: A8A036

Client Sample ID: Method Blank
Lab Sample ID: A8B2143703

Matrix Spike Blank
A8B2143701

Matrix Spike Blk Dup
A8B2143702

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			QC LIMITS	
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	SB	SBD	AVG	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	34.4	35.6	40.0	40.0	86	89	88	3	30.0	63-119
Toluene	UG/M3	35.2	36.5	40.0	40.0	88	91	90	3	30.0	70-126
Ethylbenzene	UG/M3	35.0	36.4	40.0	40.0	88	91	90	3	30.0	72-129
m/p-Xylenes	UG/M3	69.6	72.4	80.0	80.0	87	90	89	3	30.0	72-128
o-Xylene	UG/M3	34.3	35.7	40.0	40.0	86	89	88	3	30.0	71-126

SDG: A8A036
 Client sample ID: Method Blank Matrix Spike Blank Matrix Spike Blk Dup
 Lab sample ID: A8B2186703 A8B2186701 A8B2186702

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery		QC LIMITS RPD REC.		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		% RPD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	11.1	10.8	10.0	10.0	111	108	110	3	30.0	34-123
Benzo(a)anthracene	UG/M3	11.1	10.9	10.0	10.0	111	110	111	0.	30.0	54-118
Anthracene	UG/M3	11.0	10.9	10.0	10.0	111	109	110	2	30.0	61-119
Acenaphthene	UG/M3	10.8	10.4	10.0	10.0	108	104	106	4	30.0	56-122
Naphthalene	UG/M3	10.9	10.1	10.0	10.0	110	101	106	8	30.0	56-121
Chrysene	UG/M3	9.80	9.78	10.0	10.0	98	98	98	0	30.0	52-119
Benzo(a)pyrene	UG/M3	11.1	11.1	10.0	10.0	112	111	112	0.	30.0	45-120
Pyrene	UG/M3	11.0	10.7	10.0	10.0	111	108	110	3	30.0	55-120
Acenaphthylene	UG/M3	10.8	10.4	10.0	10.0	109	105	107	4	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	11.2	11.0	10.0	10.0	112	111	112	0.	30.0	34-118
Benzo(b)fluoranthene	UG/M3	11.1	10.8	10.0	10.0	111	108	110	3	30.0	46-116
Benzo(k)fluoranthene	UG/M3	11.1	10.7	10.0	10.0	111	108	110	3	30.0	49-115
Phenanthrene	UG/M3	11.2	10.9	10.0	10.0	112	110	111	2	30.0	60-120
Fluorene	UG/M3	11.0	10.7	10.0	10.0	110	107	109	3	30.0	59-121
Fluoranthene	UG/M3	11.2	10.8	10.0	10.0	113	108	111	4	30.0	55-119
Benzo(ghi)perylene	UG/M3	11.1	10.8	10.0	10.0	111	108	110	3	30.0	29-123

SD6: A8A036

Client Sample ID: Method Blank
Lab Sample ID: A8B2189703

Matrix Spike Blank
A8B2189701

Matrix Spike Blk Dup
A8B2189702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	18.2	18.3	20.0	20.0	91	92	92	30.0
Toluene	UG/M3	18.7	18.9	20.0	20.0	94	95	95	30.0
Ethylbenzene	UG/M3	18.7	18.8	20.0	20.0	94	94	94	30.0
m/p-Xylenes	UG/M3	37.1	37.4	40.0	40.0	93	94	94	30.0
o-Xylene	UG/M3	18.4	18.4	20.0	20.0	92	92	92	30.0
									63-119
									70-126
									72-129
									72-128
									71-126

SDG: A8A036

Client Sample ID: Method Blank
Lab Sample ID: A8B2196803Matrix Spike Blank
A8B2196801Matrix Spike Blk Dup
A8B2196802

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		% RPD	QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD		
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H									
Dibenzo(a,h)anthracene	UG/M3	9.46	9.70	10.0	10.0	95	97	2	30.0
Benzo(a)anthracene	UG/M3	9.64	9.58	10.0	10.0	96	96	0	30.0
Anthracene	UG/M3	9.90	9.69	10.0	10.0	99	97	2	30.0
Acenaphthene	UG/M3	10.0	9.36	10.0	10.0	100	94	6	30.0
Naphthalene	UG/M3	10.1	9.38	10.0	10.0	102	94	8	30.0
Chrysene	UG/M3	8.52	8.44	10.0	10.0	85	84	1	30.0
Benzo(a)pyrene	UG/M3	9.75	9.97	10.0	10.0	98	100	2	30.0
Pyrene	UG/M3	9.94	9.74	10.0	10.0	99	97	2	30.0
Acenaphthylene	UG/M3	10.0	9.37	10.0	10.0	100	94	6	30.0
Indeno(1,2,3-cd)pyrene	UG/M3	9.54	9.81	10.0	10.0	95	98	3	30.0
Benzo(b)fluoranthene	UG/M3	9.58	9.70	10.0	10.0	96	97	1	30.0
Benzo(k)fluoranthene	UG/M3	9.57	9.69	10.0	10.0	96	97	1	30.0
Phenanthrene	UG/M3	9.97	9.75	10.0	10.0	100	98	2	30.0
Fluorene	UG/M3	10.1	9.60	10.0	10.0	101	96	5	30.0
Fluoranthene	UG/M3	9.69	9.56	10.0	10.0	97	96	1	30.0
Benzo(ghi)perylene	UG/M3	9.55	9.88	10.0	10.0	96	99	3	30.0

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* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: A8A036

Client Sample ID: Method Blank
Lab Sample ID: A8B2223603Matrix Spike Blank
A8B2223601Matrix Spike Blk Dup
A8B2223602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.6	18.0	20.0	20.0	83	90	30.0	63-119
Toluene	UG/M3	17.0	18.5	20.0	20.0	85	93	30.0	70-126
Ethylbenzene	UG/M3	17.0	18.5	20.0	20.0	85	93	30.0	72-129
m/p-Xylenes	UG/M3	33.8	36.8	40.0	40.0	84	92	30.0	72-128
o-Xylene	UG/M3	16.7	18.2	20.0	20.0	84	91	30.0	71-126

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SDG: A8A036
 Client Sample ID: Method BLANK(VBLK_) Matrix Spike Blank A8B2127801 Matrix spike Blk Dup A8B2127802
 Lab Sample ID: A8B2127803

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		% RPD	QC LIMITS RPD REC.	
		spike Blank	Spike Blank Dup	SB	SBD	SB	SBD			AVG
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	11.0	10.9	10.0	10.0	110	110	0	30.0	34-123
Benzo(a)anthracene	UG/M3	10.8	10.8	10.0	10.0	109	108	0.	30.0	54-118
Anthracene	UG/M3	10.7	10.8	10.0	10.0	107	109	2	30.0	61-119
Acenaphthene	UG/M3	10.6	10.8	10.0	10.0	107	108	0.	30.0	56-122
Naphthalene	UG/M3	10.7	10.8	10.0	10.0	107	108	0.	30.0	56-121
Chrysene	UG/M3	10.7	10.7	10.0	10.0	108	107	0.	30.0	52-119
Benzo(a)pyrene	UG/M3	10.9	10.7	10.0	10.0	109	108	0.	30.0	45-120
Pyrene	UG/M3	10.8	10.8	10.0	10.0	108	109	0.	30.0	55-120
Acenaphthylene	UG/M3	10.8	10.9	10.0	10.0	108	110	2	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	11.0	10.9	10.0	10.0	110	110	0	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.9	10.8	10.0	10.0	109	108	0.	30.0	46-116
Benzo(k)fluoranthene	UG/M3	11.0	10.8	10.0	10.0	110	108	2	30.0	49-115
Phenanthrene	UG/M3	10.6	10.8	10.0	10.0	107	108	0.	30.0	60-120
Fluorene	UG/M3	10.7	10.8	10.0	10.0	107	109	2	30.0	59-121
Fluoranthene	UG/M3	10.6	10.7	10.0	10.0	106	108	2	30.0	55-119
Benzo(ghi)perylene	UG/M3	11.0	10.8	10.0	10.0	110	109	0.	30.0	29-123

SDG: A8A036
 Client sample ID: Method Blank(VBLK_) Matrix Spike Blank Dup
 Lab sample ID: A8B2155703 A8B2155701 Matrix Spike Blank A8B2155702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	9.93	8.94	10.0	10.0	99	89	94	11	30.0	34-123
Benzo(a)anthracene	UG/M3	10.2	8.95	10.0	10.0	103	90	97	13	30.0	54-118
Anthracene	UG/M3	9.63	8.78	10.0	10.0	96	88	92	9	30.0	61-119
Acenaphthene	UG/M3	9.59	8.72	10.0	10.0	96	87	92	10	30.0	56-122
Naphthalene	UG/M3	9.74	9.15	10.0	10.0	97	92	95	5	30.0	56-121
Chrysene	UG/M3	8.20	7.13	10.0	10.0	82	71	77	14	30.0	52-119
Benzo(a)pyrene	UG/M3	10.6	9.59	10.0	10.0	107	96	102	11	30.0	45-120
Pyrene	UG/M3	9.90	8.82	10.0	10.0	99	88	94	12	30.0	55-120
Acenaphthylene	UG/M3	9.62	8.78	10.0	10.0	96	88	92	9	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	10.5	9.29	10.0	10.0	105	93	99	12	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.4	9.10	10.0	10.0	104	91	98	13	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.4	9.03	10.0	10.0	104	90	97	14	30.0	49-115
Phenanthrene	UG/M3	9.63	8.72	10.0	10.0	96	87	92	10	30.0	60-120
Fluorene	UG/M3	9.60	8.72	10.0	10.0	96	87	92	10	30.0	59-121
Fluoranthene	UG/M3	9.71	8.56	10.0	10.0	97	86	92	12	30.0	55-119
Benzo(ghi)perylene	UG/M3	10.4	9.09	10.0	10.0	104	91	98	13	30.0	29-123

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: A8A036

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank A8B2156701

Matrix spike Blk Dup A8B2156702

Lab Sample ID: A8B2156703

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.9	17.0	20.0	20.0	85	85	30.0	63-119
Toluene	UG/M3	17.2	17.3	20.0	20.0	86	87	30.0	70-126
Ethylbenzene	UG/M3	17.1	17.2	20.0	20.0	86	86	30.0	72-129
m/p-Xylenes	UG/M3	33.9	34.3	40.0	40.0	85	86	30.0	72-128
o-Xylene	UG/M3	16.7	16.9	20.0	20.0	84	85	30.0	71-126

SDG: A8A036
 Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A8B2164903 A8B2164901 A8B2164902 A8B2164902

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.0	18.4	20.0	20.0	90	92	91	2	30.0	63-119
Toluene	UG/M3	18.1	18.9	20.0	20.0	91	95	93	4	30.0	70-126
Ethylbenzene	UG/M3	17.9	18.7	20.0	20.0	90	94	92	4	30.0	72-129
m/p-Xylenes	UG/M3	35.3	37.1	40.0	40.0	88	93	91	6	30.0	72-128
o-Xylene	UG/M3	17.3	18.3	20.0	20.0	87	92	90	6	30.0	71-126

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	DUP EAST ANASORB A08-A688 A8A68803	EAST ANASORB A08-A135 A8A13503	EAST ANASORB A08-A194 A8A19403	EAST ANASORB A08-A252 A8A25203	EAST ANASORB A08-A329 A8A32901
Sample Date	09/02/2008 15:13	08/19/2008 15:31	08/20/2008 15:23	08/21/2008 14:55	08/22/2008 11:44
Received Date	09/03/2008 09:10	08/20/2008 09:10	08/21/2008 09:00	08/22/2008 09:00	08/25/2008 08:45
Extraction Date	09/08/2008 13:33	08/22/2008 18:49	08/22/2008 17:50	08/25/2008 23:48	08/25/2008 22:08
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.526	0.691	0.683	0.624	0.488
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-A419 A8A41903	EAST ANASORB A08-A570 A8A57001	EAST ANASORB A08-A576 A8A57603	EAST ANASORB A08-A637 A8A63701
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/25/2008 15:17 08/26/2008 09:10 08/28/2008 - YES AIR 2.0 0.716 LITERS	08/28/2008 11:26 08/29/2008 09:00 09/01/2008 15:47 - YES AIR 2.0 0.447 LITERS	08/27/2008 15:10 08/29/2008 09:00 09/01/2008 14:48 - YES AIR 2.0 0.759 LITERS	08/29/2008 11:32 09/02/2008 09:10 09/02/2008 21:03 - YES AIR 2.0 0.442 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-A688 A8A68801	EAST ANASORB A08-A752 A8A75201	EAST XAD A08-A135 A8A13504	EAST XAD A08-A194 A8A19404	EAST XAD A08-A252 A8A25204
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/02/2008 15:13 09/03/2008 09:10 09/08/2008 13:14 - YES AIR 2.0 0.739 LITERS	09/03/2008 15:17 09/04/2008 10:15 09/08/2008 15:13 - YES AIR 2.0 0.635 LITERS	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST ANASORB A08-A688 A8A68801	EAST ANASORB A08-A752 A8A75201	EAST XAD A08-A135 A8A13504	EAST XAD A08-A194 A8A19404	EAST XAD A08-A252 A8A25204
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	08/19/2008 15:31 08/20/2008 09:10 08/23/2008 19:27 - YES AIR 1.0 1.129 LITERS	08/20/2008 15:23 08/21/2008 09:00 08/23/2008 21:46 - YES AIR 1.0 1.127 LITERS	08/21/2008 14:55 08/22/2008 09:00 08/23/2008 23:31 - YES AIR 1.0 1.07 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-A329 A8A32902	EAST XAD A08-A359 A8A35904	EAST XAD A08-A419 A8A41904	EAST XAD A08-A570 A8A57002	EAST XAD A08-A576 A8A57604
Sample Date	08/22/2008 11:44	08/25/2008 15:17	08/26/2008 15:04	08/28/2008 11:26	08/27/2008 15:10
Received Date	08/25/2008 08:45	08/26/2008 09:10	08/27/2008 09:00	08/29/2008 09:00	08/29/2008 09:00
Extraction Date	08/26/2008 21:02	08/26/2008 23:21	08/30/2008 17:22	08/30/2008 20:50	08/30/2008 23:09
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	0.821 LITERS	1.185 LITERS	1.121 LITERS	0.646 LITERS	1.104 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-A637 A8A63702	EAST XAD A08-A688 A8A68802	EAST XAD A08-A752 A8A75202	EAST XAD DUP A08-A754 A8A75407	NORTH ANASORB A08-A135 A8A13501
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	NA	NA	08/19/2008 15:31 08/20/2008 09:10 08/22/2008 18:29 -- YES AIR 2.0 0.711 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	EAST XAD A08-A637 A8A63702	EAST XAD A08-A688 A8A68802	EAST XAD A08-A752 A8A75202	EAST XAD DUP A08-A754 A8A75407	NORTH ANASORB A08-A135 A8A13501
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/29/2008 11:32 09/02/2008 09:10 09/05/2008 18:37 -- YES AIR 1.0 0.752 LITERS	09/02/2008 15:13 09/03/2008 09:10 09/05/2008 17:28 -- YES AIR 1.0 1.241 LITERS	09/03/2008 15:17 09/04/2008 10:15 09/09/2008 13:26 -- YES AIR 1.0 1.306 LITERS	09/03/2008 15:17 09/04/2008 10:15 09/09/2008 16:19 -- YES AIR 1.0 0.791 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-A194 A8A19401	NORTH ANASORB A08-A252 A8A25201	NORTH ANASORB A08-A328 A8A32801	NORTH ANASORB A08-A359 A8A35901	NORTH ANASORB A08-A419 A8A41901
Sample Date	08/20/2008	08/21/2008	08/22/2008	08/25/2008	08/26/2008
Received Date	08/21/2008	08/22/2008	08/25/2008	08/26/2008	08/27/2008
Extraction Date	08/22/2008	08/25/2008	08/25/2008	08/28/2008	08/28/2008
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.697	0.667	0.52	0.735	0.687
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS
	15:22 09:00	14:54 09:00	11:44 08:45	15:12 09:10	15:01 09:00

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH ANASORB A08-A568 A8A56801	NORTH ANASORB A08-A576 A8A57601	NORTH ANASORB A08-A636 A8A63601	NORTH ANASORB A08-A689 A8A68901	NORTH ANASORB A08-A754 A8A75401
Sample Date	08/28/2008 11:23	08/27/2008 15:08	08/29/2008 11:35	09/02/2008 15:10	09/03/2008 15:08
Received Date	08/29/2008 09:00	08/29/2008 09:00	09/02/2008 09:10	09/03/2008 09:10	09/04/2008 10:15
Extraction Date	09/01/2008 13:49	09/01/2008 14:28	09/02/2008 20:23	09/08/2008 16:12	09/08/2008 17:12
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.417	0.738	0.505	0.71	0.741
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-A135 A8A13502	NORTH XAD A08-A194 A8A19402	NORTH XAD A08-A252 A8A25202	NORTH XAD A08-A328 A8A32802	NORTH XAD A08-A359 A8A35902
Sample Date	08/19/2008 15:31	08/20/2008 15:22	08/21/2008 14:54	08/22/2008 11:44	08/25/2008 15:12
Received Date	08/20/2008 09:10	08/21/2008 09:00	08/22/2008 09:00	08/25/2008 08:45	08/26/2008 09:10
Extraction Date	08/23/2008 18:52	08/23/2008 20:37	08/23/2008 22:56	08/26/2008 19:53	08/26/2008 22:47
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	1.167 LITERS	1.13 LITERS	1.067 LITERS	0.839 LITERS	1.147 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-A419 A8A41902	NORTH XAD A08-A568 A8A56802	NORTH XAD A08-A576 A8A57602	NORTH XAD A08-A636 A8A63602	NORTH XAD A08-A689 A8A68902
Sample Date	08/26/2008 15:01	08/28/2008 11:23	08/27/2008 15:08	08/29/2008 11:35	09/02/2008 15:10
Received Date	08/27/2008 09:00	08/29/2008 09:00	08/29/2008 09:00	09/02/2008 09:10	09/03/2008 09:10
Extraction Date	08/30/2008 16:47	08/30/2008 18:31	08/30/2008 22:34	09/05/2008 16:18	09/06/2008 17:21
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.06 LITERS	0.593 LITERS	1.053 LITERS	0.734 LITERS	1.026 LITERS
Sample wt/vol % Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-A754 A8A75402	OSL ANASORB A08-A688 A8A68804	SOUTH AMA DUPE A08-A361 A8A36103	SOUTH ANASORB A08-A133 A8A13301	SOUTH ANASORB A08-A196 A8A19601
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	09/02/2008 13:20 09/03/2008 09:10 09/08/2008 13:53 - YES AIR 2.0 0.881 LITERS	08/25/2008 15:00 08/26/2008 09:10 08/28/2008 - YES AIR 2.0 0.904 LITERS	08/19/2008 15:28 08/20/2008 09:10 08/22/2008 14:53 - YES AIR 2.0 0.75 LITERS	08/20/2008 15:22 08/21/2008 09:00 08/22/2008 15:33 - YES AIR 2.0 0.739 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	NORTH XAD A08-A754 A8A75402	OSL ANASORB A08-A688 A8A68804	SOUTH AMA DUPE A08-A361 A8A36103	SOUTH ANASORB A08-A133 A8A13301	SOUTH ANASORB A08-A196 A8A19601
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/03/2008 15:08 09/04/2008 10:15 09/09/2008 14:35 - YES AIR 1.0 1.089 LITERS	NA	NA	NA	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	SOUTH ANASORB A08-A253 A8A25301	SOUTH ANASORB A08-A329 A8A32905	SOUTH ANASORB A08-A361 A8A36101	SOUTH ANASORB A08-A418 A8A41801	SOUTH ANASORB A08-A570 A8A57004
Sample Date	08/21/2008 14:54	08/22/2008 11:44	08/25/2008 15:00	08/26/2008 15:00	08/28/2008 11:15
Received Date	08/22/2008 09:00	08/25/2008 08:45	08/26/2008 09:10	08/27/2008 09:00	08/29/2008 09:00
Extraction Date	08/25/2008 21:09	08/25/2008 22:48	08/28/2008	08/28/2008	09/01/2008 16:27
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	2.0	2.0	2.0	2.0	2.0
Sample wt/vol % Dry	0.693 LITERS	0.542 LITERS	0.769 LITERS	0.731 LITERS	0.368 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH XAD
Job No & Lab Sample ID	A08-A576 A8A57605	A08-A637 A8A63705	A08-A689 A8A68905	A08-A754 A8A75405	A08-A133 A8A13302
Sample Date	08/27/2008 15:06	08/29/2008 11:40	09/02/2008 15:17	09/03/2008 15:13	
Received Date	08/29/2008 09:00	09/02/2008 09:10	09/03/2008 09:10	09/04/2008 10:15	
Extraction Date	09/01/2008 15:08	09/02/2008 21:42	09/08/2008 16:52	09/08/2008 17:51	
Analysis Date	-	-	-	-	NA
Extraction HT Met?	YES	YES	YES	YES	
Analytical HT Met?	AIR	AIR	AIR	AIR	
Sample Matrix	2.0	2.0	2.0	2.0	
Dilution Factor	0.77	0.411	0.62	0.643	
Sample wt/vol	LITERS	LITERS	LITERS	LITERS	
% Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH ANASORB	SOUTH XAD
Job No & Lab Sample ID	A08-A576 A8A57605	A08-A637 A8A63705	A08-A689 A8A68905	A08-A754 A8A75405	A08-A133 A8A13302
Sample Date					
Received Date					08/19/2008 15:28
Extraction Date					08/20/2008 09:10
Analysis Date					08/23/2008 17:08
Extraction HT Met?	NA	NA	NA	NA	YES
Analytical HT Met?					AIR
Sample Matrix					1.0
Dilution Factor					1.193
Sample wt/vol					LITERS
% Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-A196 A8A19602	SOUTH XAD A08-A253 A8A25302	SOUTH XAD A08-A329 A8A32906	SOUTH XAD A08-A361 A8A36102	SOUTH XAD A08-A418 A8A41802
Sample Date	08/20/2008 15:22	08/21/2008 14:54	08/22/2008 11:44	08/25/2008 15:00	08/26/2008 15:00
Received Date	08/21/2008 09:00	08/22/2008 09:00	08/25/2008 08:45	08/26/2008 09:10	08/27/2008 09:00
Extraction Date	08/23/2008 17:43	08/23/2008 18:18	08/26/2008 22:12	08/26/2008 20:28	08/30/2008 16:12
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	1.19 LITERS	1.129 LITERS	0.89 LITERS	1.243 LITERS	1.212 LITERS
Sample wt/vol % Dry					

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	SOUTH XAD A08-A570 A8A57005	SOUTH XAD A08-A576 A8A57606	SOUTH XAD A08-A637 A8A63706	SOUTH XAD A08-A689 A8A68906	SOUTH XAD A08-A754 A8A75406
Sample Date	08/28/2008 11:15	08/27/2008 15:06	08/29/2008 11:40	09/02/2008 15:17	09/03/2008 15:13
Received Date	08/29/2008 09:00	08/29/2008 09:00	09/02/2008 09:10	09/03/2008 09:10	09/04/2008 10:15
Extraction Date	08/30/2008 21:25	08/30/2008 23:44	09/06/2008 19:05	09/05/2008 22:06	09/09/2008 15:45
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	AIR	AIR	AIR	AIR	AIR
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	0.654 LITERS	1.211 LITERS	0.802 LITERS	1.288 LITERS	1.077 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-A135 A8A13505	WEST ANASORB A08-A194 A8A19405	WEST ANASORB A08-A252 A8A25205	WEST ANASORB A08-A329 A8A32903	WEST ANASORB A08-A359 A8A35905
Sample Date	08/19/2008 15:28	08/20/2008 15:22	08/21/2008 14:54	08/22/2008 11:44	08/25/2008 15:06
Received Date	08/20/2008 09:10	08/21/2008 09:00	08/22/2008 09:00	08/25/2008 08:45	08/26/2008 09:10
Extraction Date	08/22/2008 19:08	08/22/2008 18:10	08/26/2008 00:08	08/25/2008 22:28	08/28/2008
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.692	0.683	0.65	0.5	0.703
Sample wt/vol % Dry	LITERS	LITERS	LITERS	LITERS	LITERS

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NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-AA19 A8A41905	WEST ANASORB A08-A570 A8A57003	WEST ANASORB A08-A575 A8A57501	WEST ANASORB A08-A637 A8A63703	WEST ANASORB A08-A689 A8A68903
Sample Date	08/26/2008 15:01	08/28/2008 11:20	08/27/2008 15:04	08/29/2008 11:37	09/02/2008 15:11
Received Date	08/27/2008 09:00	08/29/2008 09:00	08/29/2008 09:00	09/02/2008 09:10	09/03/2008 09:10
Extraction Date	08/28/2008	09/01/2008 16:07	09/01/2008 13:09	09/02/2008 21:23	09/08/2008 16:32
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	2.0	2.0	2.0	2.0	2.0
Dilution Factor	0.702 LITERS	0.399 LITERS	0.703 LITERS	0.487 LITERS	0.61 LITERS
Sample wt/vol % Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-A754 A8A75403	WEST ANASORB A08-A933 A8A93301	WEST XAD A08-A135 A8A13506	WEST XAD A08-A194 A8A19406	WEST XAD A08-A252 A8A25206
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/03/2008 15:10 09/04/2008 10:15 09/08/2008 17:31 - YES AIR 2.0 0.623 LITERS	09/08/2008 12:04 09/09/2008 09:00 09/11/2008 15:31 - YES AIR 2.0 0.5 LITERS	NA	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST ANASORB A08-A754 A8A75403	WEST ANASORB A08-A933 A8A93301	WEST XAD A08-A135 A8A13506	WEST XAD A08-A194 A8A19406	WEST XAD A08-A252 A8A25206
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	NA	08/19/2008 15:28 08/20/2008 09:10 08/23/2008 20:02 - YES AIR 1.0 1.149 LITERS	08/20/2008 15:22 08/21/2008 09:00 08/23/2008 22:21 - YES AIR 1.0 1.119 LITERS	08/21/2008 14:54 08/22/2008 09:00 08/24/2008 00:05 - YES AIR 1.0 1.042 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST XAD A08-A329 A8A32904	WEST XAD A08-A359 A8A35906	WEST XAD A08-A419 A8A41906	WEST XAD A08-A568 A8A56803	WEST XAD A08-A575 A8A57502
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/22/2008 11:44 08/25/2008 08:45 08/26/2008 21:37 - YES AIR 1.0 0.824 LITERS	08/25/2008 15:06 08/26/2008 09:10 08/27/2008 00:31 - YES AIR 1.0 1.186 LITERS	08/26/2008 15:01 08/27/2008 09:00 08/30/2008 17:56 - YES AIR 1.0 1.048 LITERS	08/28/2008 11:20 08/29/2008 09:00 08/30/2008 19:06 - YES AIR 1.0 0.661 LITERS	08/27/2008 15:04 08/29/2008 09:00 08/30/2008 22:00 - YES AIR 1.0 1.187 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	WEST XAD A08-A637 A8A63704	WEST XAD A08-A689 A8A68904	WEST XAD A08-A754 A8A75404	WEST XAD A08-A933 A8A93302	WEST XAD DUP A08-A933 A8A93303
Sample Date	08/29/2008 11:37	09/02/2008 15:11	09/03/2008 15:10	09/08/2008 12:04	09/08/2008 12:04
Received Date	09/02/2008 09:10	09/03/2008 09:10	09/04/2008 10:15	09/09/2008 09:00	09/09/2008 09:00
Extraction Date	09/05/2008 19:12	09/06/2008 18:30	09/09/2008 15:10	09/09/2008 19:48	09/09/2008 20:23
Analysis Date	-	-	-	-	-
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	AIR	AIR	AIR	AIR	AIR
Sample Matrix	1.0	1.0	1.0	1.0	1.0
Dilution Factor	0.803 LITERS	1.021 LITERS	1.047 LITERS	1.0 LITERS	1.0 LITERS
sample wt/vol % Dry					

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-A133 A8B2112501	Matrix Spike Blank A08-A194 A8B2113701	Matrix Spike Blank A08-A252 A8B2120401	Matrix Spike Blank A08-A329 A8B2127801	Matrix Spike Blank A08-A418 A8B2143701
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/22/2008 13:35 - - AIR 1.0 0.5 LITERS	NA	08/25/2008 19:51 - - AIR 1.0 0.5 LITERS	NA	08/28/2008 - - AIR 2.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-A133 A8B2112501	Matrix Spike Blank A08-A194 A8B2113701	Matrix Spike Blank A08-A252 A8B2120401	Matrix Spike Blank A08-A329 A8B2127801	Matrix Spike Blank A08-A418 A8B2143701
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/23/2008 15:59 - - AIR 1.0 1.0 LITERS	NA	08/26/2008 18:43 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-A418 A8B2155701	Matrix Spike Blank A08-A570 A8B2156701	Matrix Spike Blank A08-A637 A8B2164901	Matrix Spike Blank A08-A689 A8B2186701	Matrix Spike Blank A08-A688 A8B2189701
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	09/01/2008 12:09 - - AIR 1.0 0.5 LITERS	09/02/2008 19:24 - - AIR 1.0 0.5 LITERS	NA	09/08/2008 12:14 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-A418 A8B2155701	Matrix Spike Blank A08-A570 A8B2156701	Matrix Spike Blank A08-A637 A8B2164901	Matrix Spike Blank A08-A689 A8B2186701	Matrix Spike Blank A08-A688 A8B2189701
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/30/2008 15:02 - - AIR 1.0 1.0 LITERS	NA	NA	09/05/2008 15:08 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-A752 A8B2196801	Matrix Spike Blank A08-A933 A8B223601	Matrix Spike Blk Dup A08-A196 A8B2112502	Matrix Spike Blk Dup A08-A135 A8B2113702	Matrix Spike Blk Dup A08-A329 A8B2120402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	09/11/2008 14:32 - - AIR 1.0 0.5 LITERS	08/22/2008 13:55 - - AIR 1.0 0.5 LITERS	NA	08/25/2008 20:10 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A08-A752 A8B2196801	Matrix Spike Blank A08-A933 A8B223601	Matrix Spike Blk Dup A08-A196 A8B2112502	Matrix Spike Blk Dup A08-A135 A8B2113702	Matrix Spike Blk Dup A08-A329 A8B2120402
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/09/2008 12:16 - - AIR 1.0 1.0 LITERS	NA	NA	08/23/2008 16:33 - - AIR 1.0 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-A419 A8B2143702	Matrix Spike Blk Dup A08-A576 A8B2155702	Matrix Spike Blk Dup A08-A570 A8B2156702	Matrix Spike Blk Dup A08-A637 A8B2164902
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA - - AIR 2.0 0.5 LITERS	NA - - AIR 1.0 0.5 LITERS	09/01/2008 12:29 - - AIR 1.0 0.5 LITERS	09/02/2008 19:44 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-A419 A8B2143702	Matrix Spike Blk Dup A08-A576 A8B2155702	Matrix Spike Blk Dup A08-A570 A8B2156702	Matrix Spike Blk Dup A08-A637 A8B2164902
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA - - AIR 1.0 1.0 LITERS	08/30/2008 15:37 - - AIR 1.0 1.0 LITERS	NA - - AIR 1.0 1.0 LITERS	NA - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-A636 A8B2186702	Matrix Spike Blk Dup A08-A752 A8B2189702	Matrix Spike Blk Dup A08-A933 A8B2196802	Matrix Spike Blk Dup A08-A933 A8B2223602
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	09/08/2008 12:34 - - AIR 1.0 0.5 LITERS	NA	09/11/2008 14:51 - - AIR 1.0 0.5 LITERS

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blk Dup A08-A636 A8B2186702	Matrix Spike Blk Dup A08-A752 A8B2189702	Matrix Spike Blk Dup A08-A933 A8B2196802	Matrix Spike Blk Dup A08-A933 A8B2223602
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/05/2008 15:43 - - AIR 1.0 LITERS	NA	09/09/2008 12:51 - - AIR 1.0 LITERS	NA

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-A196 A8B2112503	Method Blank A08-A196 A8B2113703	Method Blank A08-A329 A8B2120403	Method Blank A08-A419 A8B2143703	Method Blank A08-A689 A8B2186703
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	08/22/2008 13:16 - - AIR 1.0 0.5 LITERS	NA	08/25/2008 20:30 - - AIR 1.0 0.5 LITERS	08/28/2008 - - AIR 2.0 0.5 LITERS	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank A08-A196 A8B2112503	Method Blank A08-A196 A8B2113703	Method Blank A08-A329 A8B2120403	Method Blank A08-A419 A8B2143703	Method Blank A08-A689 A8B2186703
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	08/23/2008 15:24 - - AIR 1.0 1.0 LITERS	NA	NA	09/05/2008 14:34 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank A08-A752 A8B2189703	Method Blank A08-A933 A8B2196803	Method Blank A08-A933 A8B2223603	Method Blank(VBLK_) A08-A329 A8B2127803	Method Blank(VBLK_) A08-A575 A8B2155703
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/08/2008 12:54 - - AIR 1.0 0.5 LITERS	NA	09/11/2008 15:11 - - AIR 1.0 0.5 LITERS	NA	NA

NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Client Sample ID Job No & Lab Sample ID	Method Blank A08-A752 A8B2189703	Method Blank A08-A933 A8B2196803	Method Blank A08-A933 A8B2223603	Method Blank(VBLK_) A08-A329 A8B2127803	Method Blank(VBLK_) A08-A575 A8B2155703
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	NA	09/09/2008 11:41 - - AIR 1.0 1.0 LITERS	NA	08/26/2008 18:09 - - AIR 1.0 1.0 LITERS	08/30/2008 14:28 - - AIR 1.0 1.0 LITERS

NIOSH METHOD 1501 AROMATIC HYDROCARBONS

Client Sample ID Job No & Lab Sample ID	Method Blank(VBLK_) A08-A568 ABB2156703	Method Blank(VBLK_) A08-A637 ABB2164903
Sample Date Received Date Extraction Date Analysis Date Extraction HT Met? Analytical HT Met? Sample Matrix Dilution Factor Sample wt/vol % Dry	09/01/2008 12:49 - - AIR 1.0 0.5 LITERS	09/02/2008 20:04 - - AIR 1.0 0.5 LITERS

Chain of Custody Record

TAL-4142 (0907)

Client: Holley + Aldrich Project Manager: David Demas Date: 8/19/08 Chain of Custody Number: 388611
 Address: 4912 S. Hohman Ave Telephone Number (Area Code)/Fax Number: 317-407-7676 Lab Number: _____ Page _____ of _____
 City: Hammond State: IN Zip Code: 46320 Site Contact: J. Bellamy Lab Contact: C. Fox Analysis (Attach list if more space is needed): _____
 Project Name and Location (State): Hammond MLP, IN Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix				Containers & Preservatives					Special Instructions/ Conditions of Receipt	
			Aqueous	Sol.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc		NaOH
North Anasorb	8/19/08	3:31	X			X							Totd Flood Irradiate (4hr) minutes
North Xad		3:31											711 1,392 511
East Anasorb		3:31											1167 2,283 511
East Xad		3:31											691 1,353 511
West Anasorb		3:28											1129 2,216 511
West Xad		3:28											692 1,363 508
South Anasorb		3:28											1149 2,261 508
South Xad		3:28											750 1,477 508
South Xad		3:28											1193 2,348 508

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comments

QC Requirements (Specify): _____

1. Relinquished By: [Signature] Date: 8/19/08 Time: 4:00
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: [Signature] Date: 8/19/08 Time: 0910
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: Indicates Priority Sample W-3-T.A.T. all otus T.A.T.
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy
3.401

TestAmerica

Temperature on Receipt _____
 Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

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Chain of Custody Record

TAL-4124 (1007)

Client: Haley & Aldrich Project Manager: David Demas Date: 8/20/08 Chain of Custody Number: 086512

Address: 4912 S. Hohman Ave. Telephone Number (Area Code)/Fax Number: 317-467-7676 Lab Number: _____ Page: _____ of _____

City: Hammond State: IN Zip Code: 46320 Site Contact: J. Belamy Lab Contact: C. Fox

Project Name and Location (State): Hammond MGP, IN Carrier/Waybill Number: _____

Contract/Purchase Order/Quote No.: 12756-040

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb	8/20/08	3:22	X					X							John Flynn Fabry (John) minutes
North Xad		3:22													502
East Anasorb		3:23													502
East Xad		3:23													503
West Anasorb		3:22													503
West Xad		3:22													502
South Anasorb		3:22													503
South Xad		3:22													503

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See Comments

QC Requirements (Specify)

1. Relinquished By: Suppe Date: 8/20/08 Time: 4:00
 2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Keel Date: 8/21/08 Time: 0900
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: Indicates Priority Samples W1-3-T.A.T. All others T.A.T. 3-30c

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Slays with the Sample; PINK - Field Copy

Chain of Custody Record

TAL-4142 (0907)

Client: **Halent Aldrich** Date: **8/21/08** Chain of Custody Number: **369662**
 Address: **4912 S. Hohman Ave** Telephone Number (Area Code)/Fax Number: **317-407-7670** Lab Number: **1** of **1**
 City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. Bellamy** Lab Contact: **C. Fox**

Project Name and Location (State): **Hammond MGR, IN** Carrier/Maybill Number: **12758-040**
 Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix						Containers & Preservatives						Special Instructions/ Conditions of Receipt			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc	NaOH					
North AnaSorb	8/21/08	2:54	X					X									Total Flow Notes	
North Xad		2:54															1,407	474
East AnaSorb		2:55															2,252	474
East Xad		2:55															1,313	475
West AnaSorb		2:54															2,252	475
West Xad		2:54															1,372	474
South AnaSorb		2:54															2,199	474
South Xad		2:54															1,462	474
																	2,381	474

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **As per comment**

1. Relinquished By: **Jennifer Baller** Date: **8/21/08** Time: **3:20**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: _____ Date: _____ Time: _____
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates Priority samples W-3 - T.A.T. All others T.A.T**
 DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sampler; PINK - Field Copy

Chain of Custody Record

TAL-4142 (0907)

Client: **Halley Aldrich** Project Manager: **David Demas** Date: **8/20/08** Chain of Custody Number: **369961**

Address: **49185 Holman ave** Telephone Number (Area Code/Fax Number): **317-967-1670** Lab Number: _____ Page: 1 of _____

City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. Bellamy** Lab Contact: **C. Fox**

Project Name and Location (State): **Hammond MGR, IN** Carrier/Maybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Special Instructions/ Conditions of Receipt			
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc2		NaOH		
North AnaSorb	8/20/08	11:44	X								X					Total Flow Rate (L/min) 500
North Xad											X					374
East AnaSorb											X					1,391
East Xad											X					1,043
West ana sorb											X					1,304
West Xad											X					2,195
South AnaSorb											X					1,337
South Xad											X					2,802
											X					1,418
											X					2,400

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments**

1. Relinquished By: **Joseph Bellamy** Date: **8/20/08** Time: **1:30**

2. Relinquished By: **Bau** Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates Priority samples W-3-T.A.T. all others T.A.T.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

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Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

TAL-4124 (1007)

Client: Haley and Aldrich Project Manager: David Demas Date: 6-25-08 Chain of Custody Number: 086514

Address: 4912 S. Hohman Ave Telephone Number (Area Code)/Fax Number: 317-603-4813 Lab Number: _____ Page: 1 of 1

City: Hammond State: IN Zip Code: 46320 Site Contact: J. Hunt Carrier/Maybill Number: _____

Project Name and Location (State): Hammond IGP - IN

Contract/Purchase Order/Quote No.: 12758-040

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl			NaOH
North Anasorb	8-25-08	3:12	X					X					Tablet Fluoride Mins
North Kod		3:12											725 1.782 532
East Anasorb		3:17											1147 2.156 532
East Kod		3:17											716 1.934 537
South Anasorb *		3:00											1185 2.200 537
South Kod *		3:00											769 5.555 520
West Anasorb		3:06											1243 2.390 530
West Kod		3:06											763 5.116 526
South Ans Dye *		3:00											1186 2.855 526
													904 1.739 520

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: See comments

1. Relinquished By: Jah Hunt Date: 8-25-08 Time: 16:00
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: Chelsea Symonds Date: 8-26-08 Time: 09:10
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: Indicates priority samples w/ B.T.A.T. - All others normal T.A.T. - Hold

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TAL-4142 (0907)



Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **8-26-08** Chain of Custody Number: **370148**

Address: **4912 S. Johnson Ave** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____

City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**

Project Name and Location (State): **Hammond MGP, IN** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt		
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH				
North Anasorb	8-26-08	3:01	X					X							X DOC	Flow Rate 5 min MIS
North Xad		3:01													X	511
East Anasorb		3:04													X	511
East Xad		3:04													X	514
South Anasorb		3:00													X	510
South Xad		3:00													X	510
West Anasorb		3:01													X	511
West Xad		3:01													X	511

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months
 Return To Client Sample Disposal

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **PRE COMMON**

1. Relinquished By: _____ Date: **8-26-08** Time: _____
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **BSU** Date: **8/27/08** Time: **0900**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w-1-3 T.I.A.T All others hold/normal.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

3-50c

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Haley and Aldrich** Project Manager: **David Demas** Date: **8-28-08** Chain of Custody Number: **086519**
 Address: **1912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4843** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. West** Lab Contact: _____
 Project Name and Location (State): **W. WIMMON, MOU** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt Flow Temp Time	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb *	8-28-08	11:23	X												Flow
North Xad		11:23													Temp
East Anasorb		11:26													Time
East Xad		11:26													
West Anasorb		11:20													
West Xad		11:20													
South Anasorb *		11:15													
South Xad															

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days

QC Requirements (Specify):
 1. Received By: _____ Date: 8-28-08 Time: 11:00
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: **Indicates priority samples W-1-3 T.A.T. All others HOLD**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

Temperature on Receipt

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

Drinking Water? Yes No

TAL-4124 (1007)

Client: **Haley and Aldrich Ave**
 Address: **4912 S. Hohman Ave**
 City: **Hammond** State: **IN** Zip Code: **46320**
 Project Name and Location (State): **Hammond MGP**
 Contract/Purchase Order/Quote No.: **19758-040**
 Project Manager: **David Demms**
 Telephone Number (Area Code)/Fax Number: **317-603-4843**
 Date: **8-27-08** Chain of Custody Number: **086511**
 Lab Number: _____ Page _____ of _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix			Containers & Preservatives						Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH			ZnAc/NaOH
North Anasorb	8-27-08	3:08	X							X				738 1.424 518
North Xad		3:08												1053 2.033 518
East Anasorb		3:10												759 1.459 520
East Xad		3:10												1184 2.123 520
South Anasorb		3:06												770 1.493 514
South Xad		3:06												1211 2.347 514
West Anasorb *		3:04												783 1.367 516
West Xad *														1187 2.320 516

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify)

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other SEE COMMENT

1. Relinquished By: *[Signature]* Date: **8-27-08** Time: **16:00**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

Comments: **Indicates priority w/ 1.3 T.A.T. - All others held**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

(F)

Chain of Custody Record

TAL-4142 (0907)

Client: **Hakey and Aldrich** Project Manager: **D. Demas** Date: **8-29-08** Chain of Custody Number: **3699551**

Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4813** Lab Number: _____ Page: **1** of **1**

City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. Hubbard** Lab Contact: _____

Project Name and Location (State): **Hammond MGP** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Aqueous	Soil	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			NaOH
North Anasorb	8-29-08	11:35	X							X					505 1.384 365
North Xad		11:35													784 2.010 365
East Anasorb		11:32													442 1.220 363
East Xad		11:32													152 2.018 363
West Anasorb		11:37													487 1.328 367
West Xad		11:37													603 2.184 370
South Anasorb		11:40													441 1.111 370
South Xad		11:40													602 2.168 370

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **See com**

QC Requirements (Specify): _____

1. Relinquished By: **[Signature]** Date: **8-29-08** Time: **10:20am**
 1. Received By: **Bel** Date: **9/2/08** Time: **0910**

2. Relinquished By: _____ Date: _____ Time: _____
 2. Received By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** indicates priority samples w/ 1-3 T.A.T. All others hold AMBIENT**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Slays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1/007)

Client: **Haley and Aldrich** Project Manager: **David Demas** Chain of Custody Number: **086515**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4813** Lab Number: **8-2-08**
 City: **Hammond** State: **IN** Zip Code: **46320** Site Contact: **J. Hunt** Lab Contact: _____ Page: **1** of **1**
 Project Name and Location (State): **Hammond MOP, IN** Carrier/Waybill Number: _____

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb	9-2-08	3:10	X												710 1.392 510
North Xad		3:10													1026 2.012 510
East Anasorb *		3:13													1299 1.440 513
East Xad *		3:13													1241 2.420 513
West Anasorb		3:11													610 1.193 511
West Xad		3:11													1021 1.999 511
South Anasorb		3:17													620 1.200 517
South Xad		3:17													1288 2.491 517
Dupe East Anasorb *		3:13													526 1.022 517
OSL Anasorb *		3:20													581 1.695 520

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison B Unknown Disposal By Lab Archive For _____ Months
 (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see cert**

QC Requirements (Specify): _____

1. Relinquished By: _____ Date: **9-2-08** Time: **16:00**
 2. Relinquished By: _____ Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: _____ Date: **9/3/08** Time: **0910**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w/ 1-3 T.A.T. All others hold normal.**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Temperature on Receipt _____
 Drinking Water? Yes No

Chain of Custody Record

TAL-4124 (1007)

Client: **Haley and Aldrich** Date: **9-3-08** Chain of Custody Number: **086516**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4843**
 City: **Hammond IN 46320** Site Contact: **J. Tittus** Lab Contact: _____
 Project Name and Location (State): **Hammond MGP, IN** Carrier/Waybill Number: _____
 Contract/Purchase Order/Quote No.: **12758-040**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH			
North Anasorb	9-3-08	3:08	X												Flow Tobacco residue
North Xad		3:08													518
East Anasorb *		3:17													516
East Xad *		3:17													527
West Anasorb		3:10													520
West Xad		3:10													520
South Anasorb		3:13													523
South Xad		3:13													523
East Xad Dye		3:17													781 527

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison B Unknown Return To Client Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)
 Disposal By Lab Other: **SEE COMM**
 Turn Around Time Required: 24 Hours 48 Hours 7 Days 14 Days 21 Days
 1. Relinquished By: **[Signature]** Date: **9-3-08** Time: **16:00**
 2. Reimposed By: **[Signature]** Date: _____ Time: _____
 3. Relinquished By: _____ Date: _____ Time: _____
 1. Received By: **[Signature]** Date: **9/4/08** Time: **10:15**
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____
 Comments: **Indicates Priority Samples w 1-3 T.A.T. All others hold**
 2.52

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica

P

Temperature on Receipt _____
 Drinking Water? Yes No

THE LEADER IN ENVIRONMENTAL TESTING

Chain of Custody Record

TAL-4124 (1007)

Client: **Haley and Aldrich** Date: **9-8-08** Chain of Custody Number: **086958**
 Address: **4912 S. Hohman** Telephone Number (Area Code)/Fax Number: **317-603-4813** Lab Number: _____
 City: **Hammond** State: **IN** Zip Code: **46320** Project Name and Location (Site): **Hammond MGP, IN** Page: **1** of **1**
 Contract/Purchase Order/Quote No.: **12758-040** Site Contact: **J. Dunt** Lab Contact: **David Demas**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)	Date	Time	Matrix					Containers & Preservatives					Analysis (Attach list if more space is needed)	Special Instructions/ Conditions of Receipt	
			Air	Aqueous	Sed.	Soil	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc			
North Anasorb	9-8-08	12:07	X												Total Floate 1100 Mirs
North Xad		12:07													758 1.463 337
East Anasorb		12:10													1089 2.102 337
East Xad		12:10													681 1.292 340 340
West Anasorb		12:04													1050 1.992 334
West Xad		12:04													589 1.133 334
South Anasorb		12:02													1097 2.110 332
South Xad		12:02													720 1.377 330
Dupe West Xad		12:04													1144 2.188 334 791 1.501 334

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Polson B Unknown Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required:
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other: **see comments**

1. Relinquished By: **[Signature]** Date: **9-8-08** Time: **14:00**
 2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

Comments: *** Indicates priority samples w/ 1-3 T.A.1. All others Hold** **2.000**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

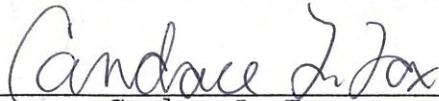
ANALYTICAL REPORT

Job#: A08-B011, A08-B109, A08-B142, A08-B809, A08-B911, A08-B978,
A08-C044, A08-C097, A08-C320, A08-C422, A08-C653

Project#: NY3A9043
SDG#: A8B011
Site Name: NiSource, Inc.
Task: Hammond, IN - Former MGP

David Demas
H&A
12220 N Meridian St., Ste 165
Camel, IN 46032

TestAmerica Laboratories Inc.



Candace L. Fox
Project Manager

10/22/2008

RECEIVED

OCT 27 2008

HALEY AND ALDRICH



TestAmerica Buffalo Current Certifications

As of 6/15/2007

STATE	Program	Cert # / Lab ID
Arkansas	SDWA, CWA, RCRA, SOIL	88-0686
California*	NELAP CWA, RCRA	01169CA
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida*	NELAP CWA, RCRA	E87672
Georgia*	SDWA, NELAP CWA, RCRA	956
Illinois*	NELAP SDWA, CWA, RCRA	200003
Iowa	SW/CS	374
Kansas*	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana*	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY0044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire*	NELAP SDWA, CWA	233701
New Jersey*	NELAP, SDWA, CWA, RCRA,	NY455
New York*	NELAP, AIR, SDWA, CWA, RCRA, CLP	10026
Oklahoma	CWA, RCRA	9421
Pennsylvania*	Registration, NELAP CWA, RCRA	68-00281
Tennessee	SDWA	02970
USDA	FOREIGN SOIL PERMIT	S-41579
USDOE	Department of Energy	DOECAP-STB
Virginia	SDWA	278
Washington	CWA, RCRA	C1677
West Virginia	CWA, RCRA	252
Wisconsin	CWA, RCRA	998310390

*As required under the indicated accreditation, the test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report.

SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>MATRIX</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
			<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A8B80901	EAST ANASORB	AIR	09/25/2008	16:30	09/26/2008	09:00
A8B97801	EAST ANASORB	AIR	09/29/2008	16:30	09/30/2008	09:00
A8C04401	EAST ANASORB	AIR	09/30/2008	00:00	10/01/2008	09:00
A8C09701	EAST ANASORB	AIR	10/01/2008	11:20	10/02/2008	09:10
A8C32001	EAST ANASORB	AIR	10/06/2008	16:00	10/07/2008	09:20
A8B80903	EAST DUPE ANASORB	AIR	09/25/2008	16:30	09/26/2008	09:00
A8B80902	EAST XAD	AIR	09/25/2008	16:30	09/26/2008	09:00
A8B97802	EAST XAD	AIR	09/29/2008	16:30	09/30/2008	09:00
A8C04402	EAST XAD	AIR	09/30/2008	00:00	10/01/2008	09:00
A8C09702	EAST XAD	AIR	10/01/2008	11:20	10/02/2008	09:10
A8C32002	EAST XAD	AIR	10/06/2008	16:00	10/07/2008	09:20
A8B01101	NORTH ANASORB	AIR	09/09/2008	16:34	09/10/2008	09:15
A8B01102	NORTH XAD	AIR	09/09/2008	16:34	09/10/2008	09:15
A8B91101	SOUTH ANASORB	AIR	09/26/2008	16:38	09/29/2008	09:30
A8C65301	SOUTH ANASORB	WATER	10/09/2008	14:30	10/10/2008	09:15
A8B91102	SOUTH XAD	AIR	09/26/2008	16:38	09/29/2008	09:30
A8C65302	SOUTH XAD	WATER	10/09/2008	14:30	10/10/2008	09:15
A8B10901	WEST ANASORB	AIR	09/10/2008	16:38	09/11/2008	09:15
A8B14201	WEST ANASORB	AIR	09/11/2008	16:04	09/12/2008	09:00
A8C42201	WEST ANASORB	AIR	10/07/2008	14:40	10/08/2008	09:30
A8B10902	WEST XAD	AIR	09/10/2008	16:38	09/11/2008	09:15
A8B14202	WEST XAD	AIR	09/11/2008	16:04	09/12/2008	09:00
A8C42202	WEST XAD	AIR	10/07/2008	14:40	10/08/2008	09:30

METHODS SUMMARY

Job#: A08-B011, A08-B109, A08-B142, A08-B809, A08-B911, A08-B978,
A08-C044, A08-C097, A08-C320, A08-C422, A08-C653

Project#: NY3A9043
SDG#: A8B011
Site Name: NiSource, Inc.

<u>PARAMETER</u>	<u>ANALYTICAL</u>
	<u>METHOD</u>
NIOSH METHOD 1501 AROMATIC HYDROCARBONS	NIOSH 1501
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON	NIOSH 5515

References:

NIOSH "NIOSH Manual of Analytical Methods", 4th Edition, August 1994.

SDG NARRATIVE

Job#: A08-B011, A08-B109, A08-B142, A08-B809, A08-B911, A08-B978,
A08-C044, A08-C097, A08-C320, A08-C422, A08-C653

Project#: NY3A9043
SDG#: A8B011
Site Name: NiSource, Inc.

General Comments

The enclosed data may or may not have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual, Dissolved Oxygen, Sulfite, and Temperature analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A08-B011

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-B109

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-B142

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-B809

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

A08-B911

Sample Cooler(s) were received at the following temperature(s); 19.0 °C
All samples were received in good condition.

A08-B978

Sample Cooler(s) were received at the following temperature(s); 4.3 °C
All samples were received in good condition.

A08-C044

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
No sample times were listed on the Chain-of-Custody. A time of 00:00 was used for
all samples.

A08-C097

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-C320

Sample Cooler(s) were received at the following temperature(s); 2.0 °C
All samples were received in good condition.

A08-C422

Sample Cooler(s) were received at the following temperature(s); 4.0 °C
All samples were received in good condition.

A08-C653

Sample Cooler(s) were received at the following temperature(s); 3.5 °C
All samples were received in good condition.

GC Volatile Data

For method 1501, most analytes exhibited positive bias and a % difference result greater than 15% in the ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 1501, most analytes exhibited positive bias and a % difference result greater than 15% in the ending continuing calibration verification. No corrective action was taken, all field samples are non-detect for these analytes.

For method 5515, Benzo(a)pyrene exhibited positive bias and a % difference result greater than 15% in the initial continuing calibration verification. No corrective action was taken, all field samples are non-detect for this analyte.

For method 5515, Indeno(1,2,3-cd)pyrene exhibited positive bias and a % difference result greater than 15% in the continuing calibration verification. No corrective action was taken, all field samples are non-detect for this analyte.

For method 1501, the Matrix Spike Blank Duplicate recovery for many compound is above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

For method 1501, the Matrix Spike Blank Duplicate recovery for many compound is above quality control limits. However, since target analytes were non-detect in the samples and the high recoveries would yield a high bias, no further corrective action was necessary.

For NIOSH method 5515, the tube for samples 02 was missing the end cap and results may be biased low.

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
NORTH ANASORB	A8B01101	1501	2.00	013
WEST ANASORB	A8B10901	1501	2.00	013
WEST ANASORB	A8B14201	1501	2.00	013
EAST ANASORB	A8B80901	1501	2.00	013
EAST DUPE ANASORB	A8B80903	1501	2.00	013
SOUTH ANASORB	A8B91101	1501	2.00	013
EAST ANASORB	A8B97801	1501	2.00	013
EAST ANASORB	A8C04401	1501	2.00	013
EAST ANASORB	A8C09701	1501	2.00	013
EAST ANASORB	A8C32001	1501	2.00	013
WEST ANASORB	A8C42201	1501	2.00	013
SOUTH ANASORB	A8c65301	1501	2.00	013

Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

DATA QUALIFIER PAGE

These definitions are provided in the event the data in this report requires the use of one or more of the qualifiers. Not all qualifiers defined below are necessarily used in the accompanying data package.

ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for CLP methodology only. For Pesticide/Aroclor target analytes, when a difference for detected concentrations between the two GC columns is greater than 25%, the lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- * Indicates analysis is not within the quality control limits.

INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected. Report with the detection limit value.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- G Indicates a value greater than or equal to the project reporting limit but less than the laboratory quantitation limit
- * Indicates the spike or duplicate analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

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Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-B809 09/25/2008	A8B80901	EAST ANASORB A08-B978 09/29/2008	A8B97801	EAST ANASORB A08-C044 09/30/2008	A8C04401	EAST ANASORB A08-C097 10/01/2008	A8C09701
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	2.3	ND	2.7	ND	3.2	ND	6.0
Ethylbenzene	UG/M3	ND	2.3	ND	2.7	ND	3.2	ND	6.0
m/p-Xylenes	UG/M3	ND	2.3	ND	2.7	ND	3.2	ND	6.0
o-Xylene	UG/M3	ND	2.3	ND	2.7	ND	3.2	ND	6.0
Toluene	UG/M3	ND	2.3	ND	2.7	ND	3.2	ND	6.0

Client ID Job No Sample Date	Lab ID	EAST ANASORB A08-C320 10/06/2008	A8C32001	EAST DUPE ANASORB A08-B809 09/25/2008	A8B80903	NORTH ANASORB A08-B011 09/09/2008	A8B01101	SOUTH ANASORB A08-B911 09/26/2008	A8B91101
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.8	ND	5.0	ND	8.0	ND	2.8
Ethylbenzene	UG/M3	ND	5.8	ND	5.0	ND	8.0	ND	2.8
m/p-Xylenes	UG/M3	ND	5.8	ND	5.0	ND	8.0	ND	2.8
o-Xylene	UG/M3	ND	5.8	ND	5.0	ND	8.0	ND	2.8
Toluene	UG/M3	ND	5.8	ND	5.0	ND	8.0	ND	2.8

Client ID Job No Sample Date	Lab ID	SOUTH ANASORB A08-C653 10/09/2008	A8C65301	WEST ANASORB A08-B109 09/10/2008	A8B10901	WEST ANASORB A08-B142 09/11/2008	A8B14201	WEST ANASORB A08-C422 10/07/2008	A8C42201
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	ND	5.8	ND	5.1	ND	5.4	ND	6.0
Ethylbenzene	UG/M3	ND	5.8	ND	5.1	ND	5.4	ND	6.0
m/p-Xylenes	UG/M3	ND	5.8	ND	5.1	ND	5.4	ND	6.0
o-Xylene	UG/M3	ND	5.8	ND	5.1	ND	5.4	ND	6.0
Toluene	UG/M3	ND	5.8	ND	5.1	ND	5.4	ND	6.0

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Client ID Job No Sample Date	Lab ID	EAST XAD A08-B809 09/25/2008	A8B80902	EAST XAD A08-B978 09/29/2008	A8B97802	EAST XAD A08-C044 09/30/2008	A8C04402	EAST XAD A08-C097 10/01/2008	A8C09702
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Acenaphthylene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Anthracene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Benzo(a)anthracene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Benzo(a)pyrene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Benzo(b)fluoranthene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Benzo(ghi)perylene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Benzo(k)fluoranthene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Chrysene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Dibenzo(a,h)anthracene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Fluoranthene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Fluorene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Naphthalene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Phenanthrene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0
Pyrene	UG/M3	ND	3.9	ND	4.1	ND	3.6	ND	8.0

Client ID Job No Sample Date	Lab ID	EAST XAD A08-C320 10/06/2008	A8C32002	NORTH XAD A08-B011 09/09/2008	A8B01102	SOUTH XAD A08-B911 09/26/2008	A8B91102	SOUTH XAD A08-C653 10/09/2008	A8C65302
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Acenaphthylene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Anthracene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Benzo(a)anthracene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Benzo(a)pyrene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Benzo(b)fluoranthene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Benzo(ghi)perylene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Benzo(k)fluoranthene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Chrysene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Dibenzo(a,h)anthracene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Fluoranthene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Fluorene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Naphthalene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Phenanthrene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9
Pyrene	UG/M3	ND	4.1	ND	5.0	ND	4.0	ND	4.9

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Client ID	Lab ID	WEST XAD A08-B109 09/10/2008	A8B10902	WEST XAD A08-B142 09/11/2008	A8B14202	WEST XAD A08-C422 10/07/2008	A8C42202	Reporting Limit	Sample Value	Reporting Limit	Sample Value
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	
Acenaphthene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Acenaphthylene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Anthracene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Benzo(a)anthracene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Benzo(a)pyrene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Benzo(b)fluoranthene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Benzo(k)fluoranthene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Chrysene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Dibenzo(a,h)anthracene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Fluoranthene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Fluorene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Indeno(1,2,3-cd)pyrene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Naphthalene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Phenanthrene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	
Pyrene	UG/M3	ND	4.0	ND	4.1	ND	4.6	NA	4.6	NA	

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Chronology and QC Summary Package

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Client ID Job No Sample Date	Lab ID	Method Blank A08-B011		Method Blank A08-B142		Method Blank A08-B809		Method Blank A08-B911	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.0	ND	8.0	ND	4.0
Ethylbenzene		ND	4.0	ND	4.0	ND	8.0	ND	4.0
m/p-Xylenes		ND	4.0	ND	4.0	ND	8.0	ND	4.0
o-Xylene		ND	4.0	ND	4.0	ND	8.0	ND	4.0
Toluene		ND	4.0	ND	4.0	ND	8.0	ND	4.0

Client ID Job No Sample Date	Lab ID	Method Blank A08-B978		Method Blank A08-C422		Method Blank A08-C653		Method Blank A08-B2431503	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene		ND	4.0	ND	4.0	ND	4.0	NA	4.0
Ethylbenzene		ND	4.0	ND	4.0	ND	4.0	NA	4.0
m/p-Xylenes		ND	4.0	ND	4.0	ND	4.0	NA	4.0
o-Xylene		ND	4.0	ND	4.0	ND	4.0	NA	4.0
Toluene		ND	4.0	ND	4.0	ND	4.0	NA	4.0

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NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

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Client ID Job No Sample Date	Lab ID	Method Blank A08-B109	A8B2241603	Method Blank A08-B809	A8B2316603	Method Blank A08-C320	A8B2378603	Method Blank A08-C422	A8B2407703
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chrysene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluoranthene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Fluorene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Naphthalene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Phenanthrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Pyrene	UG/M3	ND	5.0	ND	5.0	ND	5.0	ND	5.0

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Client ID Job No Sample Date	Lab ID	Method Blank(VBLK_) A08-B011	A8B2212103	Method Blank(VBLK_) A08-C097	A8B2358503	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Acenaphthylene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Anthracene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(a)anthracene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(a)pyrene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(b)fluoranthene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(ghi)perylene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Benzo(k)fluoranthene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Chrysene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Dibenzo(a,h)anthracene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Fluoranthene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Fluorene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Naphthalene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Phenanthrene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0
Pyrene	UG/M3	ND	5.0	ND	5.0	NA	5.0	NA	5.0

NA = Not Applicable ND = Not Detected

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-B011	Matrix Spike Blank A08-B142	Matrix Spike Blank A8B2234201	Matrix Spike Blank A08-B809	Matrix Spike Blank A8B2316202	Matrix Spike Blank A08-B911
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	17	4.0	20	4.0	40	8.0
Ethylbenzene	UG/M3	17	4.0	20	4.0	42	8.0
m/p-Xylenes	UG/M3	34	4.0	40	4.0	84	8.0
o-Xylene	UG/M3	17	4.0	20	4.0	41	8.0
Toluene	UG/M3	17	4.0	21	4.0	42	8.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-B978	Matrix Spike Blank A8B2349301	Matrix Spike Blank A08-C320	Matrix Spike Blank A8B2389001	Matrix Spike Blank A08-C653	Matrix Spike Blank A8B2431501
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	18	4.0	19	4.0	19	4.0
Ethylbenzene	UG/M3	19	4.0	20	4.0	20	4.0
m/p-Xylenes	UG/M3	37	4.0	39	4.0	39	4.0
o-Xylene	UG/M3	18	4.0	19	4.0	19	4.0
Toluene	UG/M3	18	4.0	20	4.0	19	4.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-B142	Matrix Spike Blk Dup A8B2234202	Matrix Spike Blk Dup A08-B809	Matrix Spike Blk Dup A8B2316203	Matrix Spike Blk Dup A08-B911	Matrix Spike Blk Dup A8B2349302
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	27	4.0	43	8.0	16	4.0
Ethylbenzene	UG/M3	28	4.0	46	8.0	17	4.0
m/p-Xylenes	UG/M3	56	4.0	90	8.0	33	4.0
o-Xylene	UG/M3	28	4.0	44	8.0	16	4.0
Toluene	UG/M3	28	4.0	45	8.0	16	4.0

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-C320 A8B2389002		Matrix Spike Blk Dup A08-C653 A882431502	
		Sample Value	Reporting Limit	Sample Value	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Benzene	UG/M3	19	4.0	19	4.0
Ethylbenzene	UG/M3	20	4.0	20	4.0
m/p-Xylenes	UG/M3	39	4.0	39	4.0
o-Xylene	UG/M3	20	4.0	19	4.0
Toluene	UG/M3	20	4.0	20	4.0
				NA	NA
				NA	NA
				NA	NA
				NA	NA
				NA	NA

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Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-B011	Matrix Spike Blank A8B2212101	Matrix Spike Blank A08-B142	Matrix Spike Blank A8B2241601	Matrix Spike Blank A08-B911	Matrix Spike Blank A8B2316601	Matrix Spike Blank A08-C097	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	10	5.0	8.2	5.0	10	5.0	9.4	5.0
Acenaphthylene	UG/M3	10	5.0	8.2	5.0	10	5.0	9.4	5.0
Anthracene	UG/M3	10	5.0	7.9	5.0	11	5.0	9.5	5.0
Benzo(a)anthracene	UG/M3	9.9	5.0	7.5	5.0	10	5.0	9.4	5.0
Benzo(a)pyrene	UG/M3	10	5.0	7.7	5.0	11	5.0	9.6	5.0
Benzo(b)fluoranthene	UG/M3	10	5.0	7.6	5.0	11	5.0	9.4	5.0
Benzo(ghi)perylene	UG/M3	10	5.0	7.6	5.0	11	5.0	9.6	5.0
Benzo(k)fluoranthene	UG/M3	10	5.0	7.6	5.0	11	5.0	9.5	5.0
Chrysene	UG/M3	8.7	5.0	6.6	5.0	9.5	5.0	9.4	5.0
Dibenzo(a,h)anthracene	UG/M3	10	5.0	7.4	5.0	11	5.0	9.6	5.0
Fluoranthene	UG/M3	10	5.0	7.6	5.0	10	5.0	9.6	5.0
Fluorene	UG/M3	10	5.0	8.1	5.0	11	5.0	9.4	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	10	5.0	7.4	5.0	11	5.0	9.7	5.0
Naphthalene	UG/M3	10	5.0	8.6	5.0	11	5.0	9.3	5.0
Phenanthrene	UG/M3	10	5.0	8.0	5.0	11	5.0	9.6	5.0
Pyrene	UG/M3	10	5.0	7.6	5.0	11	5.0	9.5	5.0

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A08-C320	Matrix Spike Blank A8B2378601	Matrix Spike Blank A08-C653	Matrix Spike Blank A8B2407701	Matrix Spike Blk Dup A08-B011	Matrix Spike Blk Dup A8B2212102	Matrix Spike Blk Dup A08-B109	Reporting Limit
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acenaphthene	UG/M3	8.8	5.0	11	5.0	10	5.0	10	5.0
Acenaphthylene	UG/M3	8.7	5.0	10	5.0	10	5.0	10	5.0
Anthracene	UG/M3	8.9	5.0	11	5.0	10	5.0	9.7	5.0
Benzo(a)anthracene	UG/M3	8.8	5.0	10	5.0	10	5.0	9.4	5.0
Benzo(a)pyrene	UG/M3	8.8	5.0	10	5.0	10	5.0	9.7	5.0
Benzo(b)fluoranthene	UG/M3	8.6	5.0	10	5.0	10	5.0	9.6	5.0
Benzo(ghi)perylene	UG/M3	8.9	5.0	9.8	5.0	10	5.0	9.7	5.0
Benzo(k)fluoranthene	UG/M3	8.8	5.0	10	5.0	10	5.0	9.6	5.0
Chrysene	UG/M3	8.9	5.0	10	5.0	8.9	5.0	8.3	5.0
Dibenzo(a,h)anthracene	UG/M3	8.9	5.0	9.7	5.0	10	5.0	9.4	5.0
Fluoranthene	UG/M3	8.8	5.0	11	5.0	10	5.0	9.4	5.0
Fluorene	UG/M3	8.8	5.0	11	5.0	10	5.0	10	5.0
Indeno(1,2,3-cd)pyrene	UG/M3	8.9	5.0	9.8	5.0	10	5.0	9.5	5.0
Naphthalene	UG/M3	8.8	5.0	10	5.0	10	5.0	10	5.0
Phenanthrene	UG/M3	8.8	5.0	11	5.0	10	5.0	9.8	5.0
Pyrene	UG/M3	8.8	5.0	11	5.0	10	5.0	9.6	5.0

18/57

Date: 10/22/2008
Time: 15:40:02

Nisource, Inc.
Hammond, IN - Former MGP
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC HYDROCARBON

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blk Dup A08-B911	Matrix Spike Blk Dup A08-B978	Matrix Spike Blk Dup A08-C320	Matrix Spike Blk Dup A08-C653	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Analyte
		9.7	10	8.7	10	UG/M3	9.7	5.0	8.7	5.0	10	5.0	Acenaphthene
		9.8	10	8.7	10	UG/M3	9.8	5.0	8.7	5.0	10	5.0	Acenaphthylene
		9.7	10	8.8	10	UG/M3	9.7	5.0	8.8	5.0	10	5.0	Anthracene
		9.4	10	8.7	10	UG/M3	9.4	5.0	8.7	5.0	10	5.0	Benzo(a)anthracene
		9.7	10	8.8	10	UG/M3	9.7	5.0	8.8	5.0	10	5.0	Benzo(a)pyrene
		9.4	9.9	8.7	10	UG/M3	9.4	5.0	8.7	5.0	10	5.0	Benzo(b)fluoranthene
		9.5	9.9	ND	9.9	UG/M3	9.5	5.0	ND	5.0	9.9	5.0	Benzo(ghi)perylene
		9.4	10	8.8	10	UG/M3	9.4	5.0	8.8	5.0	10	5.0	Benzo(k)fluoranthene
		8.5	10	8.7	10	UG/M3	8.5	5.0	8.7	5.0	10	5.0	Chrysene
		9.3	10	8.8	9.8	UG/M3	9.3	5.0	8.8	5.0	9.8	5.0	Dibenzo(a,h)anthracene
		9.5	10	8.7	11	UG/M3	9.5	5.0	8.7	5.0	11	5.0	Fluoranthene
		9.6	10	8.6	10	UG/M3	9.6	5.0	8.6	5.0	10	5.0	Fluorene
		10	10	8.7	10	UG/M3	10	5.0	8.7	5.0	10	5.0	Indeno(1,2,3-cd)pyrene
		9.8	10	8.7	11	UG/M3	9.8	5.0	8.7	5.0	11	5.0	Naphthalene
		9.6	9.9	8.7	11	UG/M3	9.6	5.0	8.7	5.0	11	5.0	Phenanthrene
						UG/M3							Pyrene

19/57

SDG: A8B011

Client Sample ID: Method Blank
Lab Sample ID: A8B2223603

Matrix Spike Blank
A8B2223601

Matrix Spike Blk Dup
A8B2223602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	16.6	18.0	20.0	20.0	83	90	30.0	63-119
Toluene	UG/M3	17.0	18.5	20.0	20.0	85	93	30.0	70-126
Ethylbenzene	UG/M3	17.0	18.5	20.0	20.0	85	93	30.0	72-129
m/p-Xylenes	UG/M3	33.8	36.8	40.0	40.0	84	92	30.0	72-128
o-Xylene	UG/M3	16.7	18.2	20.0	20.0	84	91	30.0	71-126

SDG: A8B011

Client Sample ID: Method Blank
Lab Sample ID: A8B2234203

Matrix Spike Blank
A8B2234201

Matrix Spike Blk Dup
A8B2234202

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	20.1	26.7	20.0	20.0	101	134 *	118	28	30.0	63-119
Toluene	UG/M3	20.6	28.4	20.0	20.0	103	142 *	123	32 *	30.0	70-126
Ethylbenzene	UG/M3	20.5	28.4	20.0	20.0	103	142 *	123	32 *	30.0	72-129
m/p-Xylenes	UG/M3	40.5	56.3	40.0	40.0	101	141 *	121	33 *	30.0	72-128
o-Xylene	UG/M3	20.0	27.9	20.0	20.0	100	140 *	120	33 *	30.0	71-126

SD6: A8B011
 Client Sample ID: Method Blank Matrix Spike Blk Dup
 Lab Sample ID: A8B2241603 A8B2241602

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	SB	SBD	AVG	RPD	REC.	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H												
Dibenz(a,h)anthracene	UG/M3	7.41	9.41	10.0	10.0	74	94	84	24	30.0	34-123	
Benzo(a)anthracene	UG/M3	7.53	9.38	10.0	10.0	75	94	85	22	30.0	54-118	
Anthracene	UG/M3	7.88	9.69	10.0	10.0	79	97	88	20	30.0	61-119	
Acenaphthene	UG/M3	8.15	10.1	10.0	10.0	82	102	92	22	30.0	56-122	
Naphthalene	UG/M3	8.64	10.3	10.0	10.0	86	104	95	19	30.0	56-121	
Chrysene	UG/M3	6.60	8.29	10.0	10.0	66	83	75	23	30.0	52-119	
Benzo(a)pyrene	UG/M3	7.69	9.68	10.0	10.0	77	97	87	23	30.0	45-120	
Pyrene	UG/M3	7.59	9.58	10.0	10.0	76	96	86	23	30.0	55-120	
Acenaphthylene	UG/M3	8.20	10.2	10.0	10.0	82	102	92	22	30.0	57-122	
Indeno(1,2,3-cd)pyrene	UG/M3	7.45	9.53	10.0	10.0	74	95	85	25	30.0	34-118	
Benzo(b)fluoranthene	UG/M3	7.57	9.56	10.0	10.0	76	96	86	23	30.0	46-116	
Benzo(k)fluoranthene	UG/M3	7.63	9.57	10.0	10.0	76	96	86	23	30.0	49-115	
Phenanthrene	UG/M3	7.95	9.83	10.0	10.0	80	98	89	20	30.0	60-120	
Fluorene	UG/M3	8.13	10.1	10.0	10.0	81	101	91	22	30.0	59-121	
Fluoranthene	UG/M3	7.59	9.42	10.0	10.0	76	94	85	21	30.0	55-119	
Benzo(ghi)perylene	UG/M3	7.59	9.70	10.0	10.0	76	97	87	24	30.0	29-123	

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank SDG: A8B011 Matrix Spike Blank Matrix Spike Blk Dup A8B2316201 A8B2316202 A8B2316203

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	40.0	43.4	40.0	40.0	100	108	104	8	30.0	63-119
Toluene	UG/M3	41.8	45.2	40.0	40.0	104	113	109	8	30.0	70-126
Ethylbenzene	UG/M3	42.3	45.8	40.0	40.0	106	114	110	7	30.0	72-129
m/p-Xylenes	UG/M3	83.6	90.2	80.0	80.0	104	113	109	8	30.0	72-128
o-Xylene	UG/M3	41.2	44.5	40.0	40.0	103	111	107	7	30.0	71-126

SDG: A8B011

Client Sample ID: Method Blank
Lab Sample ID: A8B2316603

Matrix Spike Blank
A8B2316601

Matrix Spike Blk Dup
A8B2316602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS RPD REC.
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H								
Dibenzo(a,h)anthracene	UG/M3	10.9	9.30	10.0	10.0	110	93	30.0 34-123
Benzo(a)anthracene	UG/M3	10.5	9.36	10.0	10.0	106	94	30.0 54-118
Anthracene	UG/M3	10.6	9.71	10.0	10.0	106	97	30.0 61-119
Acenaphthene	UG/M3	10.5	9.73	10.0	10.0	106	97	30.0 56-122
Naphthalene	UG/M3	10.6	10.0	10.0	10.0	107	100	30.0 56-121
Chrysene	UG/M3	9.47	8.46	10.0	10.0	95	85	30.0 52-119
Benzo(a)pyrene	UG/M3	11.0	9.69	10.0	10.0	110	97	30.0 45-120
Pyrene	UG/M3	10.6	9.64	10.0	10.0	107	96	30.0 55-120
Acenaphthylene	UG/M3	10.5	9.79	10.0	10.0	105	98	30.0 57-122
Indeno(1,2,3-cd)pyrene	UG/M3	11.1	9.55	10.0	10.0	111	96	30.0 34-118
Benzo(b)fluoranthene	UG/M3	10.7	9.35	10.0	10.0	107	94	30.0 46-116
Benzo(k)fluoranthene	UG/M3	10.7	9.36	10.0	10.0	108	94	30.0 49-115
Phenanthrene	UG/M3	10.6	9.75	10.0	10.0	106	98	30.0 60-120
Fluorene	UG/M3	10.6	9.86	10.0	10.0	106	99	30.0 59-121
Fluoranthene	UG/M3	10.5	9.52	10.0	10.0	106	95	30.0 55-119
Benzo(ghi)perylene	UG/M3	11.0	9.49	10.0	10.0	110	95	30.0 29-123

* Indicates Result is outside QC Limits
NC = Not Calculated ND = Not Detected

SDG: A8B011
 Client Sample ID: Method Blank A8B2325203
 Lab Sample ID: A8B2325201
 Matrix Spike Blank A8B2325202
 Matrix Spike Blk Dup A8B2325202

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		% RPD
NIOSH METHOD 1501 AROMATIC HYDROCARBONS										
Benzene	UG/M3	16.5	16.3	20.0	20.0	83	82	83	1	30.0 63-119
Toluene	UG/M3	16.8	16.5	20.0	20.0	84	83	84	1	30.0 70-126
Ethylbenzene	UG/M3	17.0	16.7	20.0	20.0	85	84	85	1	30.0 72-129
m/p-Xylenes	UG/M3	33.5	33.0	40.0	40.0	84	82	83	2	30.0 72-128
o-Xylene	UG/M3	16.5	16.3	20.0	20.0	83	82	83	1	30.0 71-126

SDG: A8B011

Client Sample ID: Method Blank
Lab Sample ID: A8B2349303

Matrix Spike Blank
A8B2349301

Matrix Spike Blk Dup
A8B2349302

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery			QC LIMITS	
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	SB	SBD	AVG	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS											
Benzene	UG/M3	18.1	18.3	20.0	20.0	90	92	91	30.0	63-119	
Toluene	UG/M3	18.5	18.8	20.0	20.0	93	94	94	30.0	70-126	
Ethylbenzene	UG/M3	18.7	19.1	20.0	20.0	94	96	95	30.0	72-129	
m/p-Xylenes	UG/M3	36.9	37.6	40.0	40.0	92	94	93	30.0	72-128	
o-Xylene	UG/M3	18.1	18.6	20.0	20.0	91	93	92	30.0	71-126	

SDG: A8B011

Client Sample ID: Method Blank
Lab Sample ID: A8B2378603

Matrix Spike Blank
A8B2378601

Matrix Spike Blk Dup
A8B2378602

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg		% RPD
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H										
Dibenzo(a,h)anthracene	UG/M3	8.92	8.75	10.0	10.0	89	88	89	1	30.0 34-123
Benzo(a)anthracene	UG/M3	8.77	8.68	10.0	10.0	88	87	88	1	30.0 54-118
Anthracene	UG/M3	8.86	8.78	10.0	10.0	89	88	89	1	30.0 61-119
Acenaphthene	UG/M3	8.75	8.70	10.0	10.0	88	87	88	1	30.0 56-122
Naphthalene	UG/M3	8.76	8.70	10.0	10.0	88	87	88	1	30.0 56-121
Chrysene	UG/M3	8.91	8.73	10.0	10.0	89	87	88	2	30.0 52-119
Benzo(a)pyrene	UG/M3	8.77	8.80	10.0	10.0	88	88	88	0	30.0 45-120
Pyrene	UG/M3	8.79	8.69	10.0	10.0	88	87	88	1	30.0 55-120
Acenaphthylene	UG/M3	8.74	8.66	10.0	10.0	87	87	87	0	30.0 57-122
Indeno(1,2,3-cd)pyrene	UG/M3	8.86	8.72	10.0	10.0	89	87	88	2	30.0 34-118
Benzo(b)fluoranthene	UG/M3	8.64	8.66	10.0	10.0	86	87	87	1	30.0 46-116
Benzo(k)fluoranthene	UG/M3	8.83	8.77	10.0	10.0	88	88	88	0	30.0 49-115
Phenanthrene	UG/M3	8.85	8.83	10.0	10.0	88	88	88	0	30.0 60-120
Fluorene	UG/M3	8.78	8.64	10.0	10.0	88	86	87	2	30.0 59-121
Fluoranthene	UG/M3	8.85	8.72	10.0	10.0	88	87	88	1	30.0 55-119
Benzo(ghi)perylene	UG/M3	8.88	0.0270	10.0	10.0	89	0.*	45	199 *	30.0 29-123

* Indicates Result is outside GC Limits
NC = Not Calculated ND = Not Detected

Client Sample ID: Method Blank SDG: A8B011
 Lab Sample ID: A8B2389003 Matrix Spike Blank Matrix Spike Blk Dup
 A8B2389001 A8B2389002

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	RPD	REC.
NIOSH METHOD 1501 AROMATIC HYDROCARBONS									
Benzene	UG/M3	18.8	18.7	20.0	20.0	94	94	30.0	63-119
Toluene	UG/M3	19.5	19.5	20.0	20.0	98	98	30.0	70-126
Ethylbenzene	UG/M3	19.8	19.9	20.0	20.0	99	100	30.0	72-129
m/p-Xylenes	UG/M3	39.2	39.4	40.0	40.0	98	99	30.0	72-128
o-Xylene	UG/M3	19.3	19.5	20.0	20.0	97	98	30.0	71-126

Client Sample ID: Method Blank Matrix Spike Blank Matrix Spike Blk Dup
 Lab Sample ID: A8B2407703 A8B2407701 A8B2407702

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery		QC LIMITS			
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG	% RPD	RPD	REC.
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	9.73	9.78	10.0	10.0	97	98	98	1	30.0	34-123
Benzo(a)anthracene	UG/M3	10.4	10.2	10.0	10.0	104	103	104	1	30.0	54-118
Anthracene	UG/M3	10.6	10.4	10.0	10.0	106	104	105	2	30.0	61-119
Acenaphthene	UG/M3	10.6	10.5	10.0	10.0	106	105	106	0	30.0	56-122
Naphthalene	UG/M3	10.2	10.2	10.0	10.0	103	103	103	0	30.0	56-121
Chrysene	UG/M3	10.5	10.3	10.0	10.0	105	103	104	2	30.0	52-119
Benzo(a)pyrene	UG/M3	10.0	10.1	10.0	10.0	100	101	101	1	30.0	45-120
Pyrene	UG/M3	10.7	10.6	10.0	10.0	107	107	107	0	30.0	55-120
Acenaphthylene	UG/M3	10.4	10.3	10.0	10.0	105	104	105	1	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	9.77	9.73	10.0	10.0	98	97	98	1	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.0	10.0	10.0	10.0	101	100	101	1	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.2	10.3	10.0	10.0	103	103	103	0	30.0	49-115
Phenanthrene	UG/M3	10.7	10.6	10.0	10.0	107	106	107	0	30.0	60-120
Fluorene	UG/M3	10.6	10.5	10.0	10.0	106	105	106	0	30.0	59-121
Fluoranthene	UG/M3	10.7	10.6	10.0	10.0	107	106	107	0	30.0	55-119
Benzo(ghi)perylene	UG/M3	9.78	9.88	10.0	10.0	98	99	99	1	30.0	29-123

* Indicates Result is outside QC Limits
 NC = Not Calculated ND = Not Detected

SDG: A8B011

Client Sample ID: Method Blank
Lab Sample ID: A8B2431503

Matrix Spike Blank
A8B2431501

Matrix Spike Blk Dup
A8B2431502

Analyte	Units of Measure	Concentration			Spike Amount		% Recovery		QC LIMITS	
		Spike Blank	Spike Blank Dup	SBD	SB	SBD	AVG	RPD	REC.	
NIOSH METHOD 1501 AROMATIC HYDROCARBONS										
Benzene	UG/M3	18.6	19.0	20.0	93	95	94	2	30.0	63-119
Toluene	UG/M3	19.4	19.5	20.0	97	98	98	1	30.0	70-126
Ethylbenzene	UG/M3	19.5	19.6	20.0	98	98	98	0	30.0	72-129
m/p-Xylenes	UG/M3	38.6	38.9	40.0	97	97	97	0	30.0	72-128
o-Xylene	UG/M3	19.1	19.2	20.0	96	96	96	0	30.0	71-126

SDG: A8B011

Client Sample ID: Method Blank(VBLK_) Matrix Spike Blank Matrix Spike Blk Dup
Lab Sample ID: A8B2212103 A8B2212101 A8B2212102

Analyte	Units of Measure	Concentration		Spike Amount		% Recovery			QC LIMITS RPD REC.		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	AVG		% RPD	
NIOSH METHOD 5515 POLYNUCLEAR AROMATIC H											
Dibenzo(a,h)anthracene	UG/M3	10.2	10.0	10.0	10.0	103	100	102	3	30.0	34-123
Benzo(a)anthracene	UG/M3	9.90	9.98	10.0	10.0	99	100	100	1	30.0	54-118
Anthracene	UG/M3	10.3	10.3	10.0	10.0	103	103	103	0	30.0	61-119
Acenaphthene	UG/M3	10.4	10.2	10.0	10.0	104	102	103	2	30.0	56-122
Naphthalene	UG/M3	10.5	10.0	10.0	10.0	106	100	103	6	30.0	56-121
Chrysene	UG/M3	8.72	8.87	10.0	10.0	87	89	88	2	30.0	52-119
Benzo(a)pyrene	UG/M3	10.3	10.3	10.0	10.0	103	103	103	0	30.0	45-120
Pyrene	UG/M3	10.2	10.2	10.0	10.0	102	102	102	0	30.0	55-120
Acenaphthylene	UG/M3	10.5	10.3	10.0	10.0	105	103	104	2	30.0	57-122
Indeno(1,2,3-cd)pyrene	UG/M3	10.2	10.0	10.0	10.0	103	101	102	2	30.0	34-118
Benzo(b)fluoranthene	UG/M3	10.1	10.0	10.0	10.0	101	101	102	1	30.0	46-116
Benzo(k)fluoranthene	UG/M3	10.1	10.0	10.0	10.0	102	101	102	1	30.0	49-115
Phenanthrene	UG/M3	10.4	10.3	10.0	10.0	105	103	104	2	30.0	60-120
Fluorene	UG/M3	10.5	10.4	10.0	10.0	105	104	105	1	30.0	59-121
Fluoranthene	UG/M3	10.0	10.0	10.0	10.0	100	100	100	0	30.0	55-119
Benzo(ghi)perylene	UG/M3	10.4	10.2	10.0	10.0	104	102	103	2	30.0	29-123

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101066

Client Reference: Hammond MGP/12758-040

Sample Identification: NE Particulate

Date Sampled: 10/26/2007

Lab Number: -01A

Date Received: 10/29/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 893.78

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.112	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101066

Client Reference: Hammond MGP/12758-040

Sample Identification: SE Particulate

Date Sampled: 10/26/2007

Lab Number: -02A

Date Received: 10/29/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 345.34

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.290	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101067

Client Reference: Hammond MGP/12758-040

Sample Identification: NE Particulate

Date Sampled: 10/25/2007

Lab Number: -01A

Date Received: 10/29/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 952.2

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.105	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101067

Client Reference: Hammond MGP/12758-040

Sample Identification: NW Particulate

Date Sampled: 10/25/2007

Lab Number: -02A

Date Received: 10/29/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 471.9

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.212	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101067

Client Reference: Hammond MGP/12758-040

Sample Identification: SE Particulate

Date Sampled: 10/25/2007

Lab Number: -03A

Date Received: 10/29/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 391.17

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.256	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101067

Client Reference: Hammond MGP/12758-040

Sample Identification: SW Particulate

Date Sampled: 10/25/2007

Lab Number: -04A

Date Received: 10/29/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 751.5

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.133	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101106

Client Reference: Delaware MGP

Sample Identification: Ne particulate

Date Sampled: 10/29/2007

Lab Number: -01A

Date Received: 10/30/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1203.3

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0831	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07101106

Client Reference: Delaware MGP

Sample Identification: Se particulate

Date Sampled: 10/29/2007

Lab Number: -02A

Date Received: 10/30/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 463.95

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.216	--	100		NIOSH 500 (Modif	10/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110070

Client Reference: Hammond MGP

Sample Identification: Northeast Particulate

Lab Number: -01A

Sample Type: PVC Filter, 5-micron

Date Sampled: 10/30/2007

Date Received: 11/2/2007

Air Volume (L): 1247

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0802	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110070

Client Reference: Hammond MGP

Sample Identification: Southeast Particulate

Date Sampled: 10/30/2007

Lab Number: -02A

Date Received: 11/2/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1205.3

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0830	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110072

Client Reference: Hammond MGP

Sample Identification: NE Particulate

Date Sampled: 10/31/2007

Lab Number: -01A

Date Received: 11/2/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1308.7

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0764	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110072

Client Reference: Hammond MGP

Sample Identification: SE Particulate

Date Sampled: 10/31/2007

Lab Number: -02A

Date Received: 11/2/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 520.71

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.192	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110072

Client Reference: Hammond MGP

Sample Identification: NW Particulate (FB)

Date Sampled: 10/31/2007

Lab Number: -03A

Date Received: 11/2/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): NA

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	--	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110107

Client Reference: Hammond MGP

Sample Identification: Northwest Particulate

Date Sampled: 11/1/2007

Lab Number: -01A

Date Received: 11/3/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 724.8

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.138	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110107

Client Reference: Hammond MGP

Sample Identification: Southwest Particulate

Date Sampled: 11/1/2007

Lab Number: -02A

Date Received: 11/3/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 847.2

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.118	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110108

Client Reference: Hammond Former MGP

Sample Identification: Southeast Particulate

Date Sampled: 11/2/2007

Lab Number: -01A

Date Received: 11/3/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 731.52

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.137	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110108

Client Reference: Hammond Former MGP

Sample Identification: Northeast Particulate

Date Sampled: 11/2/2007

Lab Number: -02A

Date Received: 11/3/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 914.4

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.109	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110184

Client Reference: Hammond MGP, Indiana

Sample Identification: NE Particulate

Date Sampled: 11/5/2007

Lab Number: -01A

Date Received: 11/6/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 780.48

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.128	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110184

Client Reference: Hammond MGP, Indiana

Sample Identification: SE Particulate

Date Sampled: 11/5/2007

Lab Number: -02A

Date Received: 11/6/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 822.72

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.122	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110238

Client Reference: Hammond Former MGP

Sample Identification: Northeast Particulate

Date Sampled: 11/6/2007

Lab Number: -01A

Date Received: 11/7/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 825.69

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.121	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110238

Client Reference: Hammond Former MGP

Sample Identification: Southeast Particulate

Date Sampled: 11/6/2007

Lab Number: -02A

Date Received: 11/7/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 969

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.103	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110297

Client Reference: Hammond Former MGP/12758-040

Sample Identification: Northeast Particulate

Date Sampled: 11/7/2007

Lab Number: -01A

Date Received: 11/8/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 977.16

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.102	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110297

Client Reference: Hammond Former MGP/12758-040

Sample Identification: Northwest Particulate

Date Sampled: 11/7/2007

Lab Number: -02A

Date Received: 11/8/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 799.17

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.125	--	100		NIOSH 500 (Modif	11/08/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110344

Client Reference: Hammond Former MGP

Sample Identification: Northeast Part

Date Sampled: 11/8/2007

Lab Number: -01A

Date Received: 11/9/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 829.26

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.121	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110344

Client Reference: Hammond Former MGP

Sample Identification: Southwest Part

Date Sampled: 11/8/2007

Lab Number: -02A

Date Received: 11/9/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 967.47

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.103	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110378

Client Reference: Hammond Former MGP

Sample Identification: Southwest Particulate

Date Sampled: 11/9/2007

Lab Number: -01A

Date Received: 11/10/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 675

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.148	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110378

Client Reference: Hammond Former MGP

Sample Identification: Southeast P

Date Sampled: 11/9/2007

Lab Number: -02A

Date Received: 11/10/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 880.65

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.114	--	100		NIOSH 500 (Modif	11/12/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 06, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323
TEL: (317) 603-4843
FAX

RE: Hammond Upland Remediation

Order No.: 07110836

Dear J. Hunt:

Aerotech Environmental Laboratories received 2 sample(s) on 11/28/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston

Customer Service Manager (C.S.M.)

CLIENT: Haley & Aldrich
Project: Hammond Upland Remediation
Lab Order: 07110836

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

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Analytical Results for

Haley & Aldrich

WorkOrder: 07110836

Client Reference: Hammond Upland Remediation

Sample Identification: Northwest P

Date Sampled: 11/27/2007

Lab Number: -01A

Date Received: 11/28/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 846.18

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.118	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110836

Client Reference: Hammond Upland Remediation

Sample Identification: Southeast P

Date Sampled: 11/27/2007

Lab Number: -02A

Date Received: 11/28/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1103.2

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0906	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 06-Dec-07

ANALYTICAL QC SUMMARY REPORT

CLIENT: Haley & Aldrich
Work Order: 07110836

Project: Hammond Upland Remediation

TestCode: A_N0500_IH

Sample ID: MB-R93621	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	170.0	100	199.7	0	85.1	29.7	116	140.0	19.4	46.8	

* Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By: _____

Laboratory Number: <u>07-11-0836</u>	Completed By/On: <u>[Signature] 11/28/07</u>
Client Name: <u>Halcy + Aldrich</u>	Date/Time Rec'd: <u>11/28/07 7:00</u> By: <u>KA</u>
Matrix: <u>(X) Soil</u> Aqueous Oil Sludge Solid: WW DW	Carrier Name: <u>Fedex</u>

Temperature	Cooler #1 <u>Amb</u> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present
Shipping container/cooler in good condition?	X		
Custody seals intact on shipping container/cooler?			X
Custody seals intact on sample containers?			X
Chain of Custody present and relinquished/received properly?	X		
Chain of Custody agrees with sample labels?	X		
Samples in proper containers/bottles?	X		
Sample containers intact?	X		
All samples received within holding time?	X		**See Comments about Chlorine and pH
Is there sufficient sample volume to perform the tests?	X		
40mL vials for volatiles & SOCs received with zero headspace?			X

Soil Containers:

Brass Sleeve _____

Glass Jar _____

Methanol _____

Plastic Bag _____

Encore Samplers _____

Sterile Plastic _____

Total number of bottles received: 2 IH sample media: _____

If applicable, how many sample bottles were shipped from AEL-Tucson? N/A

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10
A-General	<u>2</u>										
B-HNO3											
C-H2SO4											
D-HCl											
E-Na2S2O3											
F-NaOH											
G-Sulfide											
H-Na Sulfite											
I-MCAA											
J-Methanol											
K-HAA											
L-Other											

*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed.

**The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling.

***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.

Water-pH acceptable upon receipt? Yes No N/A

Preservative & pH	pH of samples upon receipt	If pH requires adjustment, list sample number and reagent I.D. number.
Metals <2		
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 06, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323

TEL: (317) 603-4843

FAX

RE: Hammond Former MGP

Order No.: 07110846

Dear J. Hunt:

Aerotech Environmental Laboratories received 2 sample(s) on 11/28/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston

Customer Service Manager (C.S.M.)

CLIENT: Haley & Aldrich
Project: Hammond Former MGP
Lab Order: 07110846

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110846

Client Reference: Hammond Former MGP

Sample Identification: NE Particulate

Date Sampled: 11/26/2007

Lab Number: -01A

Date Received: 11/28/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1076.2

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0929	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110846

Client Reference: Hammond Former MGP

Sample Identification: NW Particulate
Lab Number: -02A
Sample Type: PVC Filter, 5-micron

Date Sampled: 11/26/2007
Date Received: 11/28/2007
Air Volume (L): 882.36

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.113	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 06-Dec-07

ANALYTICAL QC SUMMARY REPORT

CLIENT: Haley & Aldrich
Work Order: 07110846
Project: Hammond Former MGP

TestCode: A_N0500_IH

Sample ID: MB-R93621	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621				
Client ID:	Batch ID: R93621	TestNo: N0500	%REC	Analysis Date: 11/30/2007	SeqNo: 1108140				
Analyte	PQL	SPK value	SPK Ref Val	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air		<100	100						

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621				
Client ID:	Batch ID: R93621	TestNo: N0500	%REC	Analysis Date: 11/30/2007	SeqNo: 1108141				
Analyte	PQL	SPK value	SPK Ref Val	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air		140.0	0	70.1	29.7	116			

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621				
Client ID:	Batch ID: R93621	TestNo: N0500	%REC	Analysis Date: 11/30/2007	SeqNo: 1108142				
Analyte	PQL	SPK value	SPK Ref Val	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air		170.0	0	85.1	29.7	140.0	19.4	46.8	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By:

Laboratory Number: <u>Haley 07-11-0846</u>	Completed By/On: <u>ZZ 11/28/04</u>
Client Name: <u>Haley and Aldrich</u>	Date/Time Rec'd: <u>11/28/04 1100</u> By: <u>cm</u>
Matrix: <u>Soil</u> Aqueous Oil Sludge Solid WW DW	Carrier Name: <u>Fed Ex</u>

Temperature	Cooler #1 <u>AMB</u>	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present	Soil Containers:
Shipping container/cooler in good condition?	X			Brass Sleeve _____
Custody seals intact on shipping container/cooler?	X			Glass Jar _____
Custody seals intact on sample containers?			X	Methanol _____
Chain of Custody present and relinquished/received properly?	X			Plastic Bag _____
Chain of Custody agrees with sample labels?	X			Encore Samplers _____
Samples in proper containers/bottles?	X			Sterile Plastic _____
Sample containers intact?	X			
All samples received within holding time?	X			**See Comments about Chlorine and pH
Is there sufficient sample volume to perform the tests?	X			
40mL vials for volatiles & SOCs received with zero headspace?			X	

Total number of bottles received: 2 IH sample media: Badge Filter

If applicable, how many sample bottles were shipped from AEL-Tucson? N/A X

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General		1	1									*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A X

Preservative & pH	pH of samples upon receipt	If pH requires adjustment, list sample number and reagent I.D. number.
Metals <2		
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 06, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323
TEL: (317) 603-4843
FAX

RE: Hammond UPLAND Remedial Action

Order No.: 07110879

Dear J. Hunt:


Aerotech Environmental Laboratories received 2 sample(s) on 11/29/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston

Customer Service Manager (C.S.M.)

CLIENT: Haley & Aldrich
Project: Hammond UPLAND Remedial Action
Lab Order: 07110879

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110879

Client Reference: Hammond UPLAND Remedial Action

Sample Identification: North Particulate
Lab Number: -01A
Sample Type: PVC Filter, 5-micron

Date Sampled: 11/28/2007
Date Received: 11/29/2007
Air Volume (L): 856.98

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.117	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110879

Client Reference: Hammond UPLAND Remedial Action

Sample Identification: South Particulate
 Lab Number: -02A
 Sample Type: PVC Filter, 5-micron

Date Sampled: 11/28/2007
 Date Received: 11/29/2007
 Air Volume (L): 1080

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.0926	--	100		NIOSH 500 (Mod)	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 06-Dec-07

CLIENT: Haley & Aldrich

Work Order: 07110879

Project: Hammond UPLAND Remedial Action

ANALYTICAL QC SUMMARY REPORT

TestCode: A_N0500_IH

Sample ID: MB-R93621	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	170.0	100	199.7	0	85.1	29.7	116	140.0	19.4	46.8	

* Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit



Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By: _____

Laboratory Number: <u>07110879</u>	Completed By/On: <u>[Signature] 11/29/07</u>
Client Name: <u>Halcyon + Aldrich</u>	Date/Time Rec'd: <u>11/29/07 0715</u> By: <u>PT</u>
Matrix: <u>Soil</u> Aqueous Oil Sludge Solid WW DW	Carrier Name: <u>Fedex</u>

Temperature	Cooler #1 <u>None</u> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present	Soil Containers:
Shipping container/cooler in good condition?			<input checked="" type="checkbox"/>	Brass Sleeve _____
Custody seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>			Glass Jar _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Methanol _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Plastic Bag _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			Encore Samplers _____
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			Sterile Plastic _____
Sample containers intact?	<input checked="" type="checkbox"/>			
All samples received within holding time?	<input checked="" type="checkbox"/>			
Is there sufficient sample volume to perform the tests?	<input checked="" type="checkbox"/>			
40mL vials for volatiles & SOCs received with zero headspace?			<input checked="" type="checkbox"/>	

Total number of bottles received: 2 I/H sample media: filter

If applicable, how many sample bottles were shipped from AEL-Tucson? N/A

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General	<u>2</u>											*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt?	Yes	No	N/A <input checked="" type="checkbox"/>
Preservative & pH	pH of samples upon receipt	If pH requires adjustment, list sample number and reagent I.D. number.	
Metals <2			
H2SO4 <2			
1664 <2			
Cyanide >12			
Sulfide >9			

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 06, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323

TEL: (317) 603-4843

FAX

RE: Hammond Former MGP

Order No.: 07110941

Dear J. Hunt:

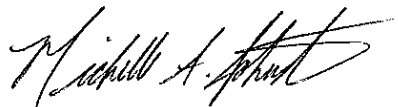
Aerotech Environmental Laboratories received 2 sample(s) on 11/30/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

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Sincerely,



Michelle A. Johnston

Customer Service Manager (C.S.M.)

CLIENT: Haley & Aldrich
Project: Hammond Former MGP
Lab Order: 07110941

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

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- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110941

Client Reference: Hammond Former MGP

Sample Identification: East Particulate
Lab Number: -01A
Sample Type: PVC Filter, 5-micron

Date Sampled: 11/29/2007
Date Received: 11/30/2007
Air Volume (L): 1120.5

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.0892	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07110941

Client Reference: Hammond Former MGP

Sample Identification: West Particulate
Lab Number: -02A
Sample Type: PVC Filter, 5-micron

Date Sampled: 11/29/2007
Date Received: 11/30/2007
Air Volume (L): 762.48

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.131	--	100		NIOSH 500 (Modi	11/30/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 06-Dec-07

CLIENT: Haley & Aldrich

Work Order: 07110941

Project: Hammond Former MGP

ANALYTICAL QC SUMMARY REPORT

TestCode: A_N0500_IH

Sample ID: MB-R93621	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108140						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108141						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93621						
Client ID:	Batch ID: R93621	TestNo: N0500		Analysis Date: 11/30/2007	SeqNo: 1108142						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	170.0	100	199.7	0	85.1	29.7	116	140.0	19.4	46.8	

* Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By: *[Signature]*

Laboratory Number: <i>07110941</i>	Completed By/On: <i>[Signature] 11/30/07</i>
Client Name: <i>Halter + Aldrich</i>	Date/Time Rec'd: <i>11/30/07 10:15</i> By: <i>[Signature]</i>
Matrix: <i>Air</i> Soil Aqueous Oil Sludge Solid WW DW	Carrier Name: <i>Fedex</i>

Temperature	Cooler #1 <i>Am 6</i> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present	Soil Containers:
Shipping container/cooler in good condition?	<i>x</i>			Brass Sleeve _____
Custody seals intact on shipping container/cooler?			<i>x</i>	Glass Jar _____
Custody seals intact on sample containers?			<i>x</i>	Methanol _____
Chain of Custody present and relinquished/received properly?	<i>x</i>			Plastic Bag _____
Chain of Custody agrees with sample labels?	<i>x</i>			Encore Samplers _____
Samples in proper containers/bottles?	<i>x</i>			Sterile Plastic _____
Sample containers intact?	<i>x</i>			
All samples received within holding time?	<i>x</i>			
Is there sufficient sample volume to perform the tests?	<i>x</i>			
40mL vials for volatiles & SOCs received with zero headspace?			<i>x</i>	
Total number of bottles received: <i>2</i>	I/H sample media: <i>filter</i>			
If applicable, how many sample bottles were shipped from AEL-Tucson?				N/A <i>x</i>

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General	<i>2</i>											*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. ***The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A *x*

Preservative & pH	pH of samples upon receipt	If pH requires adjustment, list sample number and reagent I.D. number.
Metals <2		
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 27, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323
TEL: (317) 603-4843
FAX

RE: Hammond Upland Remediation

Order No.: 07120043

Dear J. Hunt:

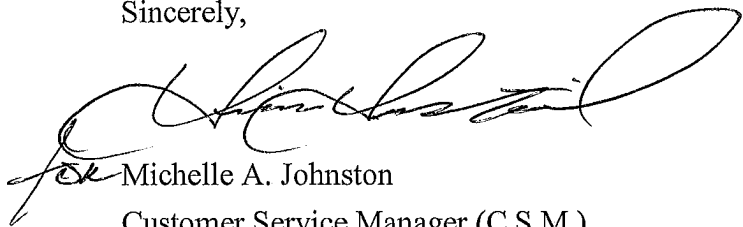
Aerotech Environmental Laboratories received 2 sample(s) on 12/15/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston
Customer Service Manager (C.S.M.)

CLIENT: Haley & Aldrich
Project: Hammond Upland Remediation
Lab Order: 07120043

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120043

Client Reference: Hammond Upland Remediation

Sample Identification: North Particulate

Date Sampled: 12/14/2007

Lab Number: -01A

Date Received: 12/15/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1107.5

Analyte	Concentration			Reporting Limit	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)	(µg, Total)			
Total Dusts in Air	<100	<0.0903	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120043

Client Reference: Hammond Upland Remediation

Sample Identification: South Particulate
Lab Number: -02A
Sample Type: PVC Filter, 5-micron

Date Sampled: 12/14/2007
Date Received: 12/15/2007
Air Volume (L): 908.82

Analyte	Concentration			Reporting Limit	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)	(µg, Total)			
Total Dusts in Air	<100	<0.110	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 27-Dec-07

ANALYTICAL QC SUMMARY REPORT

CLIENT: Haley & Aldrich

Work Order: 07120043

Project: Hammond Upland Remediation

TestCode: A_N0500_IH

Sample ID: MB-R93875	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	130.0	100	199.7	0	65.1	29.7	116	140.0	7.41	46.8	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By: _____

Laboratory Number: 07-12-0043	Completed By/On: 7.2.12/05/07
Client Name: Haley and Aldrich	Date/Time Rec'd: 12/05/07 957 By: KM
Matrix: (A) Soil Aqueous Oil Sludge Solid WW DW	Carrier Name: Fed Ex

Temperature	Cooler #1 AMB °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice **Not Present**

	Yes	No*	Not Present	Soil Containers:
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>			Brass Sleeve _____
Custody seals intact on shipping container/cooler?	<input checked="" type="checkbox"/>			Glass Jar _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Methanol _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Plastic Bag _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			Encore Samplers _____
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			Sterile Plastic _____
Sample containers intact?	<input checked="" type="checkbox"/>			
All samples received within holding time?	<input checked="" type="checkbox"/>			
Is there sufficient sample volume to perform the tests?	<input checked="" type="checkbox"/>			
40mL vials for volatiles & SOCs received with zero headspace?			<input checked="" type="checkbox"/>	
Total number of bottles received: 2	I/H sample media: pvc Filters			
If applicable, how many sample bottles were shipped from AEL-Tucson?				N/A <input checked="" type="checkbox"/>

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General		1	1									*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A

Preservative & pH	pH of samples upon receipt	If pH requires adjustment, list sample number and reagent I.D. number.
Metals <2		
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 27, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323
TEL: (317) 603-4843
FAX

RE: Hammond Upland

Order No.: 07120050

Dear J. Hunt:

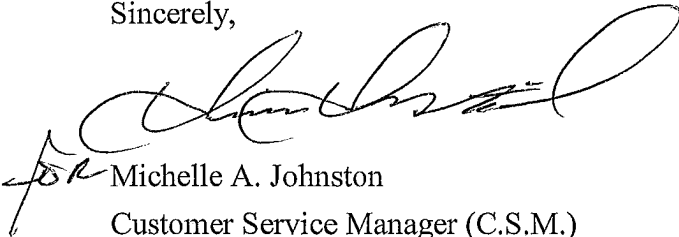
Aerotech Environmental Laboratories received 2 sample(s) on 12/18/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,


for Michelle A. Johnston
Customer Service Manager (C.S.M.)

Main Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax: 623.445.6192
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803 www.aeroenvirolabs.com

CLIENT: Haley & Aldrich
Project: Hammond Upland
Lab Order: 07120050

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120050

Client Reference: Hammond Upland

Sample Identification: North Particulate

Date Sampled: 12/17/2007

Lab Number: -01A

Date Received: 12/18/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1125.9

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.0888	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120050

Client Reference: Hammond Upland

Sample Identification: South Particulate

Date Sampled: 12/17/2007

Lab Number: -02A

Date Received: 12/18/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 913.68

Analyte	Concentration			Reporting Limit	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)	(µg, Total)			
Total Dusts in Air	<100	<0.109	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 27-Dec-07

ANALYTICAL QC SUMMARY REPORT

CLIENT: Haley & Aldrich
Work Order: 07120050
Project: Hammond Upland

TestCode: A_N0500_IH

Sample ID: MB-R93875	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	130.0	100	199.7	0	65.1	29.7	116	140.0	7.41	46.8	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Laboratory Number: 07120050 Completed By/On: [Signature] 12/18/07
 Client Name: Haley + Aldrich Date/Time Rec'd: 12/18/07 1240 By: FP
 Matrix: (Air) Soil Aqueous Oil Sludge Solid WW DW Carrier Name: fedec

Temperature	Cooler #1 <u>Amb</u> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present	
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	Soil Containers:
Custody seals intact on shipping container/cooler?			<input checked="" type="checkbox"/>	Brass Sleeve _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Glass Jar _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Methanol _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			Plastic Bag _____
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			Encore Samplers _____
Sample containers intact?	<input checked="" type="checkbox"/>			Sterile Plastic _____
All samples received within holding time?	<input checked="" type="checkbox"/>			
Is there sufficient sample volume to perform the tests?	<input checked="" type="checkbox"/>			
40mL vials for volatiles & SOCs received with zero headspace?			<input checked="" type="checkbox"/>	
Total number of bottles received: <u>2</u>	I/H sample media:			
If applicable, how many sample bottles were shipped from AEL-Tucson?				N/A <input checked="" type="checkbox"/>

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General	<u>2</u>											*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A

Preservative & pH	pH of samples upon receipt	
Metals <2		If pH requires adjustment, list sample number and reagent I.D. number.
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 27, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323
TEL: (317) 603-4843
FAX

RE: Hammond Upland Remediation/12758-040

Order No.: 07120052

Dear J. Hunt:

Aerotech Environmental Laboratories received 2 sample(s) on 12/19/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston
Customer Service Manager (C.S.M.)

Main Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax: 623.445.6192
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803 www.aeroenvirolabs.com

CLIENT: Haley & Aldrich
Project: Hammond Upland Remediation/12758-040
Lab Order: 07120052

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120052

Client Reference: Hammond Upland Remediation/12758-040

Sample Identification: North Particulate
Lab Number: -01A
Sample Type: PVC Filter, 5-micron

Date Sampled: 12/18/2007
Date Received: 12/19/2007
Air Volume (L): 860.22

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.116	--	100		NIOSH 500 (Mod)	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120052

Client Reference: Hammond Upland Remediation/12758-040

Sample Identification: South Particulate
 Lab Number: -02A
 Sample Type: PVC Filter, 5-micron

Date Sampled: 12/18/2007
 Date Received: 12/19/2007
 Air Volume (L): 1084.9

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.0922	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 27-Dec-07

ANALYTICAL QC SUMMARY REPORT

CLIENT: Haley & Aldrich
Work Order: 07120052

Project: Hammond Upland Remediation/12758-040

TestCode: A_N0500_IH

Sample ID: MB-R93875	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	130.0	100	199.7	0	65.1	29.7	116	140.0	7.41	46.8	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By:

Laboratory Number: <u>07-12-0052</u>	Completed By/On: <u>2.2.12/19/07</u>
Client Name: <u>Haley and Aldrich</u>	Date/Time Rec'd: <u>12/19/07 1105</u> By: <u>me</u>
Matrix: <u>Air</u> Soil Aqueous Oil Sludge Solid WW DW	Carrier Name: <u>FedEx</u>

Temperature	Cooler #1 <u>AMB</u> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present	Soil Containers:
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>			Brass Sleeve _____
Custody seals intact on shipping container/cooler?			<input checked="" type="checkbox"/>	Glass Jar _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Methanol _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Plastic Bag _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			Encore Samplers _____
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			Sterile Plastic _____
Sample containers intact?	<input checked="" type="checkbox"/>			
All samples received within holding time?	<input checked="" type="checkbox"/>		**See Comments about Chlorine and pH	
Is there sufficient sample volume to perform the tests?	<input checked="" type="checkbox"/>			
40mL vials for volatiles & SOCs received with zero headspace?			<input checked="" type="checkbox"/>	

Total number of bottles received: 2 I/H sample media: PVC Filters
 If applicable, how many sample bottles were shipped from AEL-Tucson? N/A

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General		<u>1</u>	<u>1</u>									*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A

Preservative & pH	pH of samples upon receipt	
Metals <2		If pH requires adjustment, list sample number and reagent I.D. number.
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Friday, December 28, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323

TEL: (317) 603-4843

FAX

RE: Hammond Upland Remediation/12758-040

Order No.: 07120054

Dear J. Hunt:

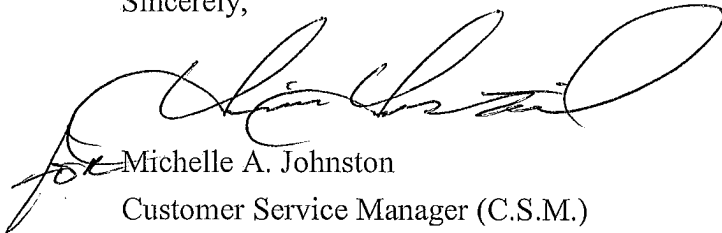
Aerotech Environmental Laboratories received 2 sample(s) on 12/20/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston
Customer Service Manager (C.S.M.)

Main Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax: 623.445.6192
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803 www.aeroenvirolabs.com

CLIENT: Haley & Aldrich
Project: Hammond Upland Remediation/12758-040
Lab Order: 07120054

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

- ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.
- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120054

Client Reference: Hammond Upland Remediation/12758-040

Sample Identification: North Particulate

Date Sampled: 12/19/2007

Lab Number: -01A

Date Received: 12/20/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 806.22

Analyte	Concentration			Reporting Limit	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)	(μg , Total)			
Total Dusts in Air	<100	<0.124	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120054

Client Reference: Hammond Upland Remediation/12758-040

Sample Identification: South Particulate

Date Sampled: 12/19/2007

Lab Number: -02A

Date Received: 12/20/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 1046

Analyte	Concentration			Reporting Limit	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)	(µg, Total)			
Total Dusts in Air	<100	<0.0956	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories Sample Receipt Checklist

Project Checked By:

Laboratory Number: 07-12-0054 Completed By/On: 2-2-12/20/07
 Client Name: Haley and Aldrich Date/Time Rec'd: 12/20/07 1130 By: W
 Matrix: (Air) Soil Aqueous Oil Sludge Solid WW DW Carrier Name: FedEx

Temperature	Cooler #1 <u>AMB</u> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice (Not Present)

	Yes	No*	Not Present	
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>			Soil Containers:
Custody seals intact on shipping container/cooler?			<input checked="" type="checkbox"/>	Brass Sleeve _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Glass Jar _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Methanol _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			Plastic Bag _____
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			Encore Samplers _____
Sample containers intact?	<input checked="" type="checkbox"/>			Sterile Plastic _____
All samples received within holding time?	<input checked="" type="checkbox"/>			
Is there sufficient sample volume to perform the tests?	<input checked="" type="checkbox"/>			
40mL vials for volatiles & SOCs received with zero headspace?			<input checked="" type="checkbox"/>	
Total number of bottles received: <u>2</u>	IH sample media: <u>PVC Filter</u>			
If applicable, how many sample bottles were shipped from AEL-Tucson?				<u>N/A</u> ✓

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General		1	1									*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A X

Preservative & pH	pH of samples upon receipt	
Metals <2		If pH requires adjustment, list sample number and reagent I.D. number.
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Thursday, December 27, 2007

J. Hunt
Haley & Aldrich
4923 S. Hohman Avenue
Hammond, IN 46323

TEL: (317) 603-4843

FAX

RE: Hammond Upland Remediation

Order No.: 07120060

Dear J. Hunt:

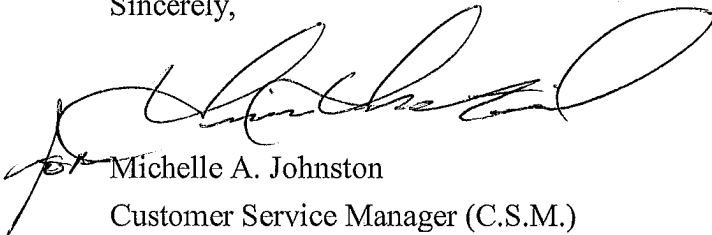
Aerotech Environmental Laboratories received 2 sample(s) on 12/21/2007 for the analyses presented in the following report.

This report includes the following information:

- Case Narrative.
- Analytical Report: includes test results, report limit (Limit), any applicable data qualifier (Qual), units, dilution factor (DF), and date analyzed.
- QC Summary Report.

This communication is intended only for the individual or entity to whom it is directed. It may contain information that is privileged, confidential, or otherwise exempt from disclosure under applicable law. Dissemination, distribution, or copying of this communication by anyone other than the intended recipient, or a duly designated employee or agent of such recipient, is prohibited. If you have received this communication in error, please notify us immediately and destroy this message and all attachments thereto. If you have any questions regarding these test results, please do not hesitate to call.

Sincerely,



Michelle A. Johnston
Customer Service Manager (C.S.M.)

Mail Laboratory: 4645 E. Cotton Center Boulevard, Building 3, Suite 189 Phoenix, AZ 85040 Phone: 602.437.3340 Toll Free: 866.772.5227 Fax: 623.445.6192
Tucson Facility: 4455 S. Park Ave. Ste. 110 Tucson, AZ 85714 Phone: 520.807.3801 Fax: 520.807.3803 www.aeroenvirolabs.com

CLIENT: Haley & Aldrich
Project: Hammond Upland Remediation
Lab Order: 07120060

CASE NARRATIVE

Analyses included in this report were performed by Aerotech Environmental Laboratories (AEL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ.

AEL (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation. AEL is also licensed through the State of Arizona (License No. AZ0610).

Samples were analyzed using methods outlined in references such as:

-ASTM - American Society for Testing and Materials Int'l, Annual Book of ASTM Standards.

-OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.

-NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.

-EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.

-EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

All method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Samples have been corrected for blank values.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120060

Client Reference: Hammond Upland Remediation

Sample Identification: North Particulate

Date Sampled: 12/20/2007

Lab Number: -01A

Date Received: 12/21/2007

Sample Type: PVC Filter, 5-micron

Air Volume (L): 851.58

Analyte	Concentration			Reporting Limit (μg , Total)	Qual	Test Method	Date Analyzed /Analyst
	(μg , Total)	(mg/m^3)	(ppm)				
Total Dusts in Air	<100	<0.117	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Analytical Results for

Haley & Aldrich

WorkOrder: 07120060

Client Reference: Hammond Upland Remediation

Sample Identification: South Particulate
 Lab Number: -02A
 Sample Type: PVC Filter, 5-micron

Date Sampled: 12/20/2007
 Date Received: 12/21/2007
 Air Volume (L): 558.36

Analyte	Concentration			Reporting Limit (µg, Total)	Qual	Test Method	Date Analyzed /Analyst
	(µg, Total)	(mg/m ³)	(ppm)				
Total Dusts in Air	<100	<0.179	--	100		NIOSH 500 (Modi	12/24/2007 ZN

General Notes:

<: Less than the indicated reporting limit(RL).

--: Information not available or not applicable.

Back sections were checked and showed no significant breakthrough.

(a) Analysis indicates possible breakthrough; back section result is greater than % of the front section result.

Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Date: 27-Dec-07

CLIENT: Haley & Aldrich
Work Order: 07120060

Project: Hammond Upland Remediation

ANALYTICAL QC SUMMARY REPORT

TestCode: A_N0500_IH

Sample ID: MB-R93875	SampType: MBLK	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110962						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	<100	100									

Sample ID: LCS	SampType: LCS	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110963						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	140.0	100	199.7	0	70.1	29.7	116				

Sample ID: LCSD	SampType: LCSD	TestCode: A_N0500_IH	Units: µg, Total	Prep Date:	RunNo: 93875						
Client ID:	Batch ID: R93875	TestNo: N0500		Analysis Date: 12/24/2007	SeqNo: 1110964						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Total Dusts in Air	130.0	100	199.7	0	65.1	29.7	116	140.0	7.41	46.8	

Qualifiers: * Value exceeds Maximum Contaminant Level ND Not Detected at the Reporting Limit

Laboratory Number: <u>07-12-0060</u>	Completed By/On: <u>AG</u>
Client Name: <u>Haley + Aldrich</u>	Date/Time Rec'd: <u>12/21/07 11:15</u> By: <u>AG</u>
Matrix: <u>(Air)</u> Soil Aqueous Oil Sludge Solid WW DW	Carrier Name: <u>FED EX</u>

Temperature	Cooler #1 <u>Amb</u> °C	Cooler #2 °C	Cooler #3 °C	Cooler #4 °C
Temp. Read With	Thermometer IR	Thermometer IR	Thermometer IR	Thermometer IR

Client or PM made aware of temp. out of range? Yes No Circle one: Blue Ice Wet Ice Not Present

	Yes	No*	Not Present	
Shipping container/cooler in good condition?	<input checked="" type="checkbox"/>			Soil Containers:
Custody seals intact on shipping container/cooler?			<input checked="" type="checkbox"/>	Brass Sleeve _____
Custody seals intact on sample containers?			<input checked="" type="checkbox"/>	Glass Jar _____
Chain of Custody present and relinquished/received properly?	<input checked="" type="checkbox"/>			Methanol _____
Chain of Custody agrees with sample labels?	<input checked="" type="checkbox"/>			Plastic Bag _____
Samples in proper containers/bottles?	<input checked="" type="checkbox"/>			Encore Samplers _____
Sample containers intact?	<input checked="" type="checkbox"/>			Sterile Plastic _____
All samples received within holding time?	<input checked="" type="checkbox"/>			
Is there sufficient sample volume to perform the tests?	<input checked="" type="checkbox"/>			
40mL vials for volatiles & SOCs received with zero headspace?			<input checked="" type="checkbox"/>	

Total number of bottles received: 2 I/H sample media: _____
 If applicable, how many sample bottles were shipped from AEL-Tucson? N/A

Number of containers received by preservative and by sample number: (If more than 10 samples are rec'd, please continue on separate sheet(s)).

Preservative	Simple***	1	2	3	4	5	6	7	8	9	10	
A-General		<u>1</u>	<u>1</u>									*Any No response must be detailed in the comments section. Contact the PM immediately to determine how to proceed. Refer to SOP 11-001 and continue on back if additional space is needed. **The holding time for pH and Total Residual Chlorine analysis is immediate. For the most accurate results, the pH and Total Residual Chlorine should be taken in the field within 15 minutes of sampling. ***The Simple box is only to be used when there is one bottle per preservative in equal sample sets.
B-HNO3												
C-H2SO4												
D-HCl												
E-Na2S2O3												
F-NaOH												
G-Sulfide												
H-Na Sulfite												
I-MCAA												
J-Methanol												
K-HAA												
L-Other												

Water-pH acceptable upon receipt? Yes No N/A 2

Preservative & pH	pH of samples upon receipt	
Metals <2		If pH requires adjustment, list sample number and reagent I.D. number.
H2SO4 <2		
1664 <2		
Cyanide >12		
Sulfide >9		

Comments: _____

July 16, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG0990
Project Name: N_IH Sampling
Project Number: Hammond MGP
Date Received: 07/16/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.


HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG0990
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 07/16/08
Reported: 07/16/08 17:00

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

East Particulate

PRG0990-01

07/15/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG0990-02

07/15/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG0990
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 07/16/08
 Reported: 07/16/08 17:00

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG0990-01 (East Particulate)		Filter	Sample Air Volume:540L		Sampled: 07/15/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.185	--	7/16/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG0990-02 (South Particulate)		Filter	Sample Air Volume:540L		Sampled: 07/15/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	110	0.204	--	7/16/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG0990
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 07/16/08
 Reported: 07/16/08 17:00

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G1624-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G1624	P8G1624-BLK1	07-16-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G1624-BS1								
Total Particulates, N.O.R.	200	170.0		ug, Total	85%	29.7-116	P8G1624	07-16-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G1624-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	16.2	46.8	P8G1624		07-16-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG0990
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 07/16/08
Reported: 07/16/08 17:00

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 18, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1046
Project Name: N_IH Sampling
Project Number: Hammond MGP/12753-040
Date Received: 07/17/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1046
Project: N_IH Sampling
Project Number: Hammond MGP/12753-040

Received: 07/17/08
Reported: 07/18/08 14:55

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

South Part

PRG1046-01

07/16/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

East Part

PRG1046-02

07/16/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1046
 Project: N_IH Sampling
 Project Number: Hammond MGP/12753-040

Received: 07/17/08
 Reported: 07/18/08 14:55

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1046-01 (South Part)		Filter	Sample Air Volume:1008L		Sampled: 07/16/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0992	<--	7/18/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1046-02 (East Part)		Filter	Sample Air Volume:1101L		Sampled: 07/16/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0908	<--	7/18/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1046
 Project: N_IH Sampling
 Project Number: Hammond MGP/12753-040

Received: 07/17/08
 Reported: 07/18/08 14:55

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G1819-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G1819	P8G1819-BLK1	07-18-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G1819-BS1								
Total Particulates, N.O.R.	200	190.0		ug, Total	95%	29.7-116	P8G1819	07-18-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G1819-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	14.6	46.8	P8G1819		07-18-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1046
Project: N_IH Sampling
Project Number: Hammond MGP/12753-040

Received: 07/17/08
Reported: 07/18/08 14:55

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1146
Project Name: N_IH Sampling
Project Number: Hammond MGP
Date Received: 07/18/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1146
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 07/18/08
Reported: 07/21/08 15:36

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Part

PRG1146-01

07/17/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Part

PRG1146-02

07/17/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1146
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 07/18/08
 Reported: 07/21/08 15:36

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1146-01 (North Part)	Filter		Sample Air Volume:1093L		Sampled: 07/17/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	230	0.21	--	7/21/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1146-02 (South Part)	Filter		Sample Air Volume:1083L		Sampled: 07/17/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	220	0.203	--	7/21/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1146
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 07/18/08
 Reported: 07/21/08 15:36

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G2121-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G2121	P8G2121-BLK1	07-21-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G2121-BS1								
Total Particulates, N.O.R.	200	190.0		ug, Total	95%	29.7-116	P8G2121	07-21-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G2121-BSD1												
Total Particulates, N.O.R.		210.0		ug, Total	200	105%	29.7-116	10	46.8	P8G2121		07-21-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1146
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 07/18/08
Reported: 07/21/08 15:36

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1233
Project Name: N_IH Sampling
Project Number: Hammond MGP/12573-040
Date Received: 07/21/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.


HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1233
Project: N_IH Sampling
Project Number: Hammond MGP/12573-040

Received: 07/21/08
Reported: 07/21/08 15:39

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

East Part

PRG1233-01

07/18/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Part

PRG1233-02

07/18/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1233
 Project: N_IH Sampling
 Project Number: Hammond MGP/12573-040

Received: 07/21/08
 Reported: 07/21/08 15:39

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1233-01 (East Part)		Filter	Sample Air Volume:1184L		Sampled: 07/18/08	
	ug, Total	mg/m3			ug, Total	
Total Particulates, N.O.R.	<100	<0.0845	<--	7/21/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1233-02 (South Part)		Filter	Sample Air Volume:1097L		Sampled: 07/18/08	
	ug, Total	mg/m3			ug, Total	
Total Particulates, N.O.R.	<100	<0.0912	<--	7/21/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1233
 Project: N_IH Sampling
 Project Number: Hammond MGP/12573-040

Received: 07/21/08
 Reported: 07/21/08 15:39

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G2121-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G2121	P8G2121-BLK1	07-21-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G2121-BS1								
Total Particulates, N.O.R.	200	190.0		ug, Total	95%	29.7-116	P8G2121	07-21-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G2121-BSD1												
Total Particulates, N.O.R.		210.0		ug, Total	200	105%	29.7-116	10	46.8	P8G2121		07-21-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1233
Project: N_IH Sampling
Project Number: Hammond MGP/12573-040

Received: 07/21/08
Reported: 07/21/08 15:39

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 31, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1374
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 07/23/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1374
Project: N_IH Sampling
Project Number: [none]

Received: 07/23/08
Reported: 07/31/08 12:20

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

East Particulate

PRG1374-01

07/22/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1374-02

07/22/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1374
 Project: N_IH Sampling
 Project Number: [none]

Received: 07/23/08
 Reported: 07/31/08 12:20

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1374-01 (East Particulate)		Filter	Sample Air Volume:1098L		Sampled: 07/22/08	
	ug, Total	mg/m3	ppm		ug, Total	
Total Particulates, N.O.R.	<100	<0.0911	<--	7/30/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1374-02 (South Particulate)		Filter	Sample Air Volume:1156L		Sampled: 07/22/08	
	ug, Total	mg/m3	ppm		ug, Total	
Total Particulates, N.O.R.	<100	<0.0865	<--	7/30/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1374
 Project: N_IH Sampling
 Project Number: [none]

Received: 07/23/08
 Reported: 07/31/08 12:20

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G3012-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G3012	P8G3012-BLK1	07-30-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G3012-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8G3012	07-30-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G3012-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8G3012		07-30-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1374
Project: N_IH Sampling
Project Number: [none]

Received: 07/23/08
Reported: 07/31/08 12:20

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 31, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRG1458
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 07/24/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRG1458
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/24/08
Reported: 07/31/08 12:34

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRG1458-01

07/23/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1458-02

07/23/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRG1458
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/24/08
 Reported: 07/31/08 12:34

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1458-01 (North Particulate)						
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0774	<--	7/30/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1458-02 (South Particulate)						
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0859	<--	7/30/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRG1458
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/24/08
 Reported: 07/31/08 12:34

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G3012-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G3012	P8G3012-BLK1	07-30-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G3012-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8G3012	07-30-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G3012-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8G3012		07-30-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRG1458
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/24/08
Reported: 07/31/08 12:34

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 31, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRG1565
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 07/25/08

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CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRG1565
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/25/08
Reported: 07/31/08 12:42

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRG1565-01

07/24/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1565-02

07/24/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRG1565
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/25/08
 Reported: 07/31/08 12:42

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1565-01 (North Particulate)	Filter		Sample Air Volume:1279L		Sampled: 07/24/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0782	7/30/2008	ZN	100	NIOSH 0500 (Modified)
Sample ID: PRG1565-02 (South Particulate)	Filter		Sample Air Volume:1169L		Sampled: 07/24/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0855	7/30/2008	ZN	100	NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRG1565
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/25/08
 Reported: 07/31/08 12:42

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G3012-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G3012	P8G3012-BLK1	07-30-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G3012-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8G3012	07-30-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G3012-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8G3012		07-30-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRG1565
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/25/08
Reported: 07/31/08 12:42

CERTIFICATION SUMMARY

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The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 31, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1591
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 07/28/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1591
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/28/08
Reported: 07/31/08 12:57

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRG1591-01

07/25/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1591-02

07/25/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1591
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/28/08
 Reported: 07/31/08 12:57

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1591-01 (North Particulate)	Filter		Sample Air Volume:1015L		Sampled: 07/25/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0985	7/30/2008	ZN	100	NIOSH 0500 (Modified)
Sample ID: PRG1591-02 (South Particulate)	Filter		Sample Air Volume:1126L		Sampled: 07/25/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	100	0.0888	7/30/2008	ZN	100	NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1591
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/28/08
Reported: 07/31/08 12:57

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G3012-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G3012	P8G3012-BLK1	07-30-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G3012-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8G3012	07-30-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G3012-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8G3012		07-30-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1591
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/28/08
Reported: 07/31/08 12:57

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

July 31, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRG1667
Project Name: N_IH Sampling
Project Number: Hammond MGP/ 12758-040
Date Received: 07/29/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRG1667
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 07/29/08
Reported: 07/31/08 13:05

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRG1667-01

07/28/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1667-02

07/28/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRG1667
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 07/29/08
 Reported: 07/31/08 13:05

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1667-01 (North Particulate)	Filter		Sample Air Volume:1363L			Sampled: 07/28/08
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	140	0.103	--	7/30/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1667-02 (South Particulate)	Filter		Sample Air Volume:1200L			Sampled: 07/28/08
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	200	0.167	--	7/30/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRG1667
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 07/29/08
 Reported: 07/31/08 13:05

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8G3012-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8G3012	P8G3012-BLK1	07-30-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8G3012-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8G3012	07-30-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8G3012-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8G3012		07-30-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRG1667
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 07/29/08
Reported: 07/31/08 13:05

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 06, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1722
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 07/30/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1722
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/30/08
Reported: 08/06/08 13:25

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRG1722-01

07/29/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1722-02

07/29/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1722
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/30/08
 Reported: 08/06/08 13:25

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1722-01 (North Particulate)	Filter		Sample Air Volume:1441L		Sampled: 07/29/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	120	0.0833	--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRG1722-02 (South Particulate)	Filter		Sample Air Volume:1085L		Sampled: 07/29/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	130	0.12	--	8/6/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1722
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/30/08
 Reported: 08/06/08 13:25

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H0618-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H0618	P8H0618-BLK1	08-06-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H0618-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H0618	08-06-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H0618-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	4.88	46.8	P8H0618		08-06-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1722
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/30/08
Reported: 08/06/08 13:25

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 06, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRG1759
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 07/31/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.


HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1759
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/31/08
Reported: 08/06/08 13:29

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRG1759-01

07/30/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRG1759-02

07/30/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1759
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/31/08
 Reported: 08/06/08 13:29

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRG1759-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.0694	<--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 07/30/08
Sample ID: PRG1759-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.0912	<--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 07/30/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRG1759
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 07/31/08
 Reported: 08/06/08 13:29

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H0618-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H0618	P8H0618-BLK1	08-06-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H0618-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H0618	08-06-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H0618-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	4.88	46.8	P8H0618		08-06-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRG1759
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 07/31/08
Reported: 08/06/08 13:29

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 06, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0017
Project Name: N_IH Sampling
Project Number: Hammond MGP/ 12758-040
Date Received: 08/01/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.


HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0017
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/01/08
Reported: 08/06/08 13:32

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0017-01

07/31/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0017-02

07/31/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0017
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/01/08
 Reported: 08/06/08 13:32

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0017-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 07/31/08
Total Particulates, N.O.R.	<100	<0.0787	--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH0017-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 07/31/08
Total Particulates, N.O.R.	130	0.135	--	8/6/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0017
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/01/08
 Reported: 08/06/08 13:32

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H0618-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H0618	P8H0618-BLK1	08-06-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H0618-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H0618	08-06-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H0618-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	4.88	46.8	P8H0618		08-06-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0017
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/01/08
Reported: 08/06/08 13:32

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 06, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0078
Project Name: N_IH Sampling
Project Number: Hammond MGP/ 12758-040
Date Received: 08/04/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.


HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0078
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
Reported: 08/06/08 13:58

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0078-01

08/01/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0078-02

08/01/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0078
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
 Reported: 08/06/08 13:58

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0078-01 (North Particulate)			Sample Air Volume:1259L		Sampled: 08/01/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0794	<--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH0078-02 (South Particulate)			Sample Air Volume:971L		Sampled: 08/01/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.103	<--	8/6/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0078
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
 Reported: 08/06/08 13:58

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H0618-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H0618	P8H0618-BLK1	08-06-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H0618-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H0618	08-06-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H0618-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	4.88	46.8	P8H0618		08-06-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0078
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
Reported: 08/06/08 13:58

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 06, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0079
Project Name: N_IH Sampling
Project Number: Hammond MGP/ 12758-040
Date Received: 08/04/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0079
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
Reported: 08/06/08 14:01

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0079-01

08/02/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0079-02

08/02/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0079
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
 Reported: 08/06/08 14:01

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0079-01 (North Particulate)						
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0778	<--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/02/08
Sample ID: PRH0079-02 (South Particulate)						
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.103	<--	8/6/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/02/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0079
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
 Reported: 08/06/08 14:01

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H0618-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H0618	P8H0618-BLK1	08-06-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H0618-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H0618	08-06-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H0618-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	4.88	46.8	P8H0618		08-06-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0079
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/04/08
Reported: 08/06/08 14:01

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 13, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0417
Project Name: N_IH Sampling
Project Number: Hammond MGP/ 12758-040
Date Received: 08/07/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0417
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/07/08
Reported: 08/13/08 14:06

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0417-01

08/06/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0417-02

08/06/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0417
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/07/08
 Reported: 08/13/08 14:06

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0417-01 (North Particulate)	Filter		Sample Air Volume:1277L		Sampled: 08/06/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0783	8/13/2008	ZN	100	NIOSH 0500 (Modified)
Sample ID: PRH0417-02 (South Particulate)	Filter		Sample Air Volume:966L		Sampled: 08/06/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.104	8/13/2008	ZN	100	NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0417
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/07/08
 Reported: 08/13/08 14:06

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H1311-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H1311	P8H1311-BLK1	08-13-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H1311-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H1311	08-13-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H1311-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	15.4	46.8	P8H1311		08-13-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0417
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/07/08
Reported: 08/13/08 14:06

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 13, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0522
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/08/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0522
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/08/08
Reported: 08/13/08 14:20

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0522-01

08/07/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0522-02

08/07/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0522
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/08/08
 Reported: 08/13/08 14:20

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0522-01 (North Particulate)	Filter		Sample Air Volume:1282L			Sampled: 08/07/08
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.078	8/13/2008	ZN	100	NIOSH 0500 (Modified)
Sample ID: PRH0522-02 (South Particulate)	Filter		Sample Air Volume:977L			Sampled: 08/07/08
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.102	8/13/2008	ZN	100	NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0522
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/08/08
 Reported: 08/13/08 14:20

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H1311-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H1311	P8H1311-BLK1	08-13-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H1311-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H1311	08-13-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H1311-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	15.4	46.8	P8H1311		08-13-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0522
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/08/08
Reported: 08/13/08 14:20

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 13, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0612
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/11/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0612
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/11/08
Reported: 08/13/08 14:28

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0612-01

08/08/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0612-02

08/08/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0612
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/11/08
 Reported: 08/13/08 14:28

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0612-01 (North Particulate)	Filter		Sample Air Volume:1278L		Sampled: 08/08/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0782	8/13/2008	ZN	100	NIOSH 0500 (Modified)
Sample ID: PRH0612-02 (South Particulate)	Filter		Sample Air Volume:974L		Sampled: 08/08/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.103	8/13/2008	ZN	100	NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0612
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/11/08
 Reported: 08/13/08 14:28

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H1311-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H1311	P8H1311-BLK1	08-13-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H1311-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H1311	08-13-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H1311-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	15.4	46.8	P8H1311		08-13-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0612
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/11/08
Reported: 08/13/08 14:28

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The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DJ Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 602.424.9303

www.testamericainc.com

Lab Number
PRH0612

Customer Number: **Haley Aldrich**

Page 1 of 1

Name: **Haley Aldrich**

Sampler: **Sensler Belknap**

Address: **4912 S. Hohmann Ave**

Project Name: **Haymond HGP**

City, State, Zip: **Haymond TN 41632**

Project Number: **18758-040**

Contact: **Sensler Belknap**

P.O. Number:

Phone: **37-407-7671** Fax:

Fax Results: Y

E-Mail Address: **belknap@chalyptus.com**

E-Mail Results: Y

Sample Receipt: Turn Around Request

Temperature: **20.0** °C

24 Hours

48 Hours

Custody Seals: Yes No

72 Hours

Custody Seals Intact: Yes No

5 working Day

Total # of Containers: _____

Standard 10 Working Days

Subject to scheduling and availability (surcharges apply)

Analyses Requested

Sample Information

Lab #	IH Media Type (Filter, Passive Monitor or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume in Liters	Number of Media per Sample	
	ATR	9.68	Northport TN	8/8/08	6:30	7:30	480	1278	1	X
	ATR	8.630	Southport TN	8/8/08	6:30	7:30	480	974	1	X

particulates

Instructions / Special Requirements:

Date: **8/11/08** Time: **10:20**

Samples Relinquished By: **Samuel Bell**

Received By: **[Signature]**

August 13, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0671
Project Name: N_IH Sampling
Project Number: Hammond MGP/ 12758-040
Date Received: 08/12/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

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PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Denise Harrington For Tim Trestrail
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0671
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/12/08
Reported: 08/13/08 14:36

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0671-01

08/11/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0671-02

08/11/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0671
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/12/08
 Reported: 08/13/08 14:36

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0671-01 (North Particulate)	Filter	Sample Air Volume:1389L			Sampled: 08/11/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.072	<--	8/13/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH0671-02 (South Particulate)	Filter	Sample Air Volume:1055L			Sampled: 08/11/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.0948	<--	8/13/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0671
 Project: N_IH Sampling
 Project Number: Hammond MGP/ 12758-040

Received: 08/12/08
 Reported: 08/13/08 14:36

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H1311-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H1311	P8H1311-BLK1	08-13-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H1311-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P8H1311	08-13-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H1311-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	15.4	46.8	P8H1311		08-13-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0671
Project: N_IH Sampling
Project Number: Hammond MGP/ 12758-040

Received: 08/12/08
Reported: 08/13/08 14:36

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0775
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/13/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0775
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/13/08
Reported: 08/21/08 10:31

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0775-01

08/12/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0775-02

08/12/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0775
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/13/08
 Reported: 08/21/08 10:31

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0775-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/12/08
Total Particulates, N.O.R.	<100	<0.0768	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH0775-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/12/08
Total Particulates, N.O.R.	130	0.132	--	8/20/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0775
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/13/08
 Reported: 08/21/08 10:31

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2007-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2007	P8H2007-BLK1	08-20-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2007-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8H2007	08-20-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2007-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8H2007		08-20-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0775
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/13/08
Reported: 08/21/08 10:31

CERTIFICATION SUMMARY

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TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com



Aerotech Environmental Laboratories

a division of Aerotech Laboratories, Inc.

Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 623.445.6192
 North Phoenix - 1501 W. Knudsen, Phoenix, AZ 85027 623.780.4800 - FAX 623.445.6216
 Tucson - 4455 S. Park Ave, Suite 110, Tucson, AZ 85714 520.807.3801 - FAX 520.807.3803
 www.aerotechlabs.com or call toll-free 866.772.5227

Customer Number:

Name: **SECOR**

Address: **4463 White Bear Parkway**

City, State, Zip: **White Bear Lake, MN 55110**

Contact:

Phone: **(651) 653-9112**

E-Mail Address: **Fax: (651) 653-1751**

Sample Receipt

Temperature: _____ °C

Custody Seals: Yes _____ No _____

Custody Seals Intact: Yes _____ No _____

Total # of Containers: _____

Turn Around Request
 24 Hours _____ 48 Hours _____
 72 Hours _____
 5 working Day _____
 Standard 10 Working Days _____
Subject to scheduling and availability (surcharges apply)

Lab Number: **PRH0773**

Sample Information

Lab #	IH Media	Flow Rate	Sample Identification	Start Time	Stop Time	Final	Analyses Requested
1	FLORISIL	0.0614	081208-Dan	8:27 AM	4:49 PM		NIOSH 0500 TO-10 PCB NIOSH 5503
2	PUF TUBE	1.011	081208-N	8:02 AM	4:12 PM		Hold
3	PUF TUBE	1.026	080108-E	8:16 AM	4:27 PM		Hold
4	PUF TUBE	1.0595	080108-S	8:22 AM	4:40 PM		Hold
5	PUF TUBE	1.015	080108-W	8:08 AM	4:17 PM		X

Instructions / Special Requirements: **Please provide a Level IV Data Package. Use quote K2272.**

Send results to Al Gorski (agorski@secor.com), Jon Alberg (jalberg@secor.com)

Date: 08/12/08 Time: 18:00

Sampler: Brian Campbell

Received By:

Brian Campbell
Brian Campbell

All services are performed subject to the Terms & Conditions on the reverse side.

Chain of Custody, Page 1 of 1, REV 02, 111103, VPOAS

August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0883
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/14/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0883
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/14/08
Reported: 08/21/08 09:10

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0883-01

08/12/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0883-02

08/12/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0883
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/14/08
 Reported: 08/21/08 09:10

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0883-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.0768	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/12/08
Sample ID: PRH0883-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.1	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/12/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0883
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/14/08
 Reported: 08/21/08 09:10

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2007-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2007	P8H2007-BLK1	08-20-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2007-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8H2007	08-20-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2007-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8H2007		08-20-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0883
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/14/08
Reported: 08/21/08 09:10

CERTIFICATION SUMMARY

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH0971
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/15/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

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CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0971
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/15/08
Reported: 08/21/08 09:17

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH0971-01

08/14/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH0971-02

08/14/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0971
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/15/08
 Reported: 08/21/08 09:17

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH0971-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/14/08
Total Particulates, N.O.R.	<100	<0.13	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH0971-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/14/08
Total Particulates, N.O.R.	<100	<0.143	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH0971
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/15/08
 Reported: 08/21/08 09:17

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2007-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2007	P8H2007-BLK1	08-20-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2007-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8H2007	08-20-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2007-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8H2007		08-20-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH0971
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/15/08
Reported: 08/21/08 09:17

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1022
Project Name: N_IH Sampling
Project Number: Hammond/12758-640
Date Received: 08/18/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1022
Project: N_IH Sampling
Project Number: Hammond/12758-640

Received: 08/18/08
Reported: 08/21/08 09:48

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1022-01

08/15/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1022-02

08/15/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1022
 Project: N_IH Sampling
 Project Number: Hammond/12758-640

Received: 08/18/08
 Reported: 08/21/08 09:48

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1022-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.131	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/15/08
Sample ID: PRH1022-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.141	<--	8/20/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/15/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1022
 Project: N_IH Sampling
 Project Number: Hammond/12758-640

Received: 08/18/08
 Reported: 08/21/08 09:48

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2007-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2007	P8H2007-BLK1	08-20-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2007-BS1								
Total Particulates, N.O.R.	200	200.0		ug, Total	100%	29.7-116	P8H2007	08-20-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2007-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	9.52	46.8	P8H2007		08-20-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1022
Project: N_IH Sampling
Project Number: Hammond/12758-640

Received: 08/18/08
Reported: 08/21/08 09:48

CERTIFICATION SUMMARY

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The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1183
Project Name: N_IH Sampling
Project Number: Hammond/12758-640
Date Received: 08/20/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1183
Project: N_IH Sampling
Project Number: Hammond/12758-640

Received: 08/20/08
Reported: 08/21/08 15:12

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1183-01

08/19/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1183-02

08/19/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1183
 Project: N_IH Sampling
 Project Number: Hammond/12758-640

Received: 08/20/08
 Reported: 08/21/08 15:12

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1183-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.125	<--	8/21/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/19/08
Sample ID: PRH1183-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.135	<--	8/21/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/19/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1183
 Project: N_IH Sampling
 Project Number: Hammond/12758-640

Received: 08/20/08
 Reported: 08/21/08 15:12

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2136-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2136	P8H2136-BLK1	08-21-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2136-BS1								
Total Particulates, N.O.R.	200	190.0		ug, Total	95%	29.7-116	P8H2136	08-21-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2136-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	14.6	46.8	P8H2136		08-21-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1183
Project: N_IH Sampling
Project Number: Hammond/12758-640

Received: 08/20/08
Reported: 08/21/08 15:12

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
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- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

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Unless otherwise noted, sample results have been corrected for method blank values.

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August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1263
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/21/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1263
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/21/08
Reported: 08/21/08 15:40

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1263-01

08/20/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1263-02

08/20/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1263
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/21/08
 Reported: 08/21/08 15:40

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1263-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/20/08
Total Particulates, N.O.R.	<100	<0.127	<--	8/21/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH1263-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/20/08
Total Particulates, N.O.R.	<100	<0.136	<--	8/21/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1263
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/21/08
 Reported: 08/21/08 15:40

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2136-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2136	P8H2136-BLK1	08-21-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2136-BS1								
Total Particulates, N.O.R.	200	190.0		ug, Total	95%	29.7-116	P8H2136	08-21-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2136-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	14.6	46.8	P8H2136		08-21-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1263
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- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

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Unless otherwise noted, sample results have been corrected for method blank values.

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TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

DXI Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 602.424.9303

www.testamericainc.com

Lab Number

PRH1263

Customer Number:

Page 1 of 1

Name: **Helen J. Hirsch**

Sampler: **Jennifer Bellamy**

Address: **4912 S. Hohmann Ave.**

Project Name: **Harvard MS-03**

City, State Zip: **Hammond, IN 46326**

Project Number: **18758-040**

Contact: **Jennifer Bellamy**

P.O. Number:

Phone: **317-407-7670**

Fax: **317-407-7670**

Fax Results:

E-Mail Address: **helen@helenhirsch.com**

E-Mail Results:

Temperature _____ °C

Turn Around Request:

Custody Seals Intact: Yes _____ No _____

24 Hours _____ 48 Hours _____

Custody Seals Intact: Yes _____ No _____

72 Hours _____

Total # of Containers: _____

5 working Day _____

Standard 10 Working Days _____

Subject to scheduling and availability (surcharges apply)

Sample Information

Lab #	IH Media Type (Filter, Passive Monitor or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume In Liters	Number of Media per Sample	Analyses Requested
1	Air	1.574	North Particulate	8/30/08	7:00am	8:30pm	500	7.34	1	Particulates
2	Air	1.463	SOUTH Particulate	8/30/08	7:00am	8:30pm	500	7.34	1	X

Instructions / Special Requirements:

Date: _____ Time: _____

Samples Relinquished By:

Received By:

8/30/08 4:00

Simp Bellamy

MS-03

All services are performed subject to the Terms & Conditions on the reverse side.

August 21, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1264
Project Name: N_IH Sampling
Project Number: Hammond/12758-040
Date Received: 08/21/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1264
Project: N_IH Sampling
Project Number: Hammond/12758-040

Received: 08/21/08
Reported: 08/21/08 15:47

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1264-01

08/18/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1264-02

08/18/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1264
 Project: N_IH Sampling
 Project Number: Hammond/12758-040

Received: 08/21/08
 Reported: 08/21/08 15:47

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1264-01 (North Particulate)	Filter		Sample Air Volume:761L		Sampled: 08/18/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.131	<--	8/21/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH1264-02 (South Particulate)	Filter		Sample Air Volume:701L		Sampled: 08/18/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.143	<--	8/21/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1264
 Project: N_IH Sampling
 Project Number: Hammond/12758-040

Received: 08/21/08
 Reported: 08/21/08 15:47

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2136-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2136	P8H2136-BLK1	08-21-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2136-BS1								
Total Particulates, N.O.R.	200	190.0		ug, Total	95%	29.7-116	P8H2136	08-21-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2136-BSD1												
Total Particulates, N.O.R.		220.0		ug, Total	200	110%	29.7-116	14.6	46.8	P8H2136		08-21-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1264
Project: N_IH Sampling
Project Number: Hammond/12758-040

Received: 08/21/08
Reported: 08/21/08 15:47

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

10 Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 602.424.9303

www.testamericainc.com

PRH1264

Lab Number

Customer Number:

Page 1 of 1

Name: Halvey Aldrich

Sampler: Jennifer Bellamy

Address: 4947 S. Hohmann Ave

Project Name: Hammond

City, State, Zip: Hammond, IN 46320

Project Number: 18758-040

Contact: Jennifer Bellamy

P.O. Number:

Phone: 317-467-7620 Fax:

Fax Results:

E-Mail Address: bellamy@halvayaldrich.com

E-Mail Results:

Sample Receipt

Turn Around Request:

Temperature _____ °C

24 Hours _____ 48 Hours _____

Custody Seals: Yes _____ No _____

72 Hours _____

Custody Seals Intact: Yes _____ No _____

5 Working Day _____

Total # of Containers: _____

Standard 10 Working Days _____

Subject to scheduling and availability (surcharges apply)

Sample Information

Lab #	IH Media Type (Filter, Passive Monitor or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume In Liters	Number of Media per Sample	Analyses Requested
1	AIR	1.585	North particulate	2/16/08	7:00	3:00	480	761	1	X
2	AIR	1.461	South particulate	2/19/08	7:00	3:00	480	701	1	X

Instructions / Special Requirements:

Date: 2/19/08 Time: 10:20

Samples Relinquished By: [Signature]

Received By: [Signature]

All services are performed subject to the Terms & Conditions on the reverse side.

August 25, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1353
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/22/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1353
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/22/08
Reported: 08/25/08 15:21

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1353-01

08/21/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1353-02

08/21/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1353
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/22/08
 Reported: 08/25/08 15:21

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1353-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.134	<--	8/22/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/21/08
Sample ID: PRH1353-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	100	0.143	--	8/22/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/21/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1353
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/22/08
 Reported: 08/25/08 15:21

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2239-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2239	P8H2239-BLK1	08-22-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2239-BS1								
Total Particulates, N.O.R.	200	180.0		ug, Total	90%	29.7-116	P8H2239	08-22-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2239-BSD1												
Total Particulates, N.O.R.		200.0		ug, Total	200	100%	29.7-116	10.5	46.8	P8H2239		08-22-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1353
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/22/08
Reported: 08/25/08 15:21

CERTIFICATION SUMMARY

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The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

August 25, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1413
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/25/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

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CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1413
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/25/08
Reported: 08/25/08 15:28

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1413-01

08/22/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1413-02

08/22/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1413
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/25/08
 Reported: 08/25/08 15:28

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1413-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/22/08
Total Particulates, N.O.R.	<100	<0.187	<--	8/25/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH1413-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/22/08
Total Particulates, N.O.R.	<100	<0.184	<--	8/25/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1413
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/25/08
 Reported: 08/25/08 15:28

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2523-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2523	P8H2523-BLK1	08-25-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2523-BS1								
Total Particulates, N.O.R.	200	230.0		ug, Total	115%	29.7-116	P8H2523	08-25-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2523-BSD1												
Total Particulates, N.O.R.		210.0		ug, Total	200	105%	29.7-116	9.09	46.8	P8H2523		08-25-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1413
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/25/08
Reported: 08/25/08 15:28

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

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TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

101 Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3940 - FAX 602.424.9303

www.testamericainc.com

Lab Number
DRH1413

Customer Number: _____
Page 1 of 1

Name: Halcy Alder, CM
Address: 4014 S. Hohman Ave
City, State, Zip: Hammond, IN 46320
Contact: Yanfer Bellamy
Phone: 317-407-7679 Fax: _____
E-Mail Address: yanfer@halcyaldr.com

Sampler: Sennit Bellamy
Project Name: Hammond MGP
Project Number: 17158-046
P.O. Number: _____
Fax Results: Y
E-Mail Results: N

Temperature: 20.0 °C
Custody Seals: Yes ___ No ___
Custody Seals Intact: Yes ___ No ___
Total # of Containers: _____
Turn Around Request: _____
Sample Receipt: _____
Subject to scheduling and availability (surcharges apply)

Sample Information

Lab #	IH Media Type (Filter, Passive Monitor or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume In Liters	Number of Media per Sample	Analyses Requested
	Air	1.433	North particulate	8/28/08	6:30	11:44	374	536	1	X particulates
	Air	1.453	South particulate	8/28/08	6:30	11:44	374	543	1	

Instructions / Special Requirements:

Date: 8/28/08 Time: 10:15

Samples Relinquished By: Janet Bellamy

Received By: AD

All services are performed subject to the Terms & Conditions on the reverse side.

August 29, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Jennifer Bellamy

Work Order: PRH1468
Project Name: N_IH Sampling
Project Number: Hammond MGP/12758-040
Date Received: 08/26/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

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If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

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CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

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PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1468
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/26/08
Reported: 08/29/08 12:48

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1468-01

08/25/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1468-02

08/25/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1468
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/26/08
 Reported: 08/29/08 12:48

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1468-01 (North Particulate)		Filter	Sample Air Volume:833L		Sampled: 08/25/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.12	<--	8/28/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH1468-02 (South Particulate)		Filter	Sample Air Volume:782L		Sampled: 08/25/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.128	<--	8/28/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Jennifer Bellamy

Work Order: PRH1468
 Project: N_IH Sampling
 Project Number: Hammond MGP/12758-040

Received: 08/26/08
 Reported: 08/29/08 12:48

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2829-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2829	P8H2829-BLK1	08-28-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2829-BS1								
Total Particulates, N.O.R.	200	230.0		ug, Total	115%	29.7-116	P8H2829	08-28-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2829-BSD1												
Total Particulates, N.O.R.		210.0		ug, Total	200	105%	29.7-116	9.09	46.8	P8H2829		08-28-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Jennifer Bellamy

Work Order: PRH1468
Project: N_IH Sampling
Project Number: Hammond MGP/12758-040

Received: 08/26/08
Reported: 08/29/08 12:48

CERTIFICATION SUMMARY

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TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

[X] Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 602.424.9303

www.testamericainc.com

Lab Number

PRH1468

Customer Number:

Page 1 of 1

Name: Haley and Al d'rich

Sampler: J. Hebert

Address: 1916 S. Hammond Ave

Project Name: Hammond, Mar

City, State, Zip: Hammond, IN, 46320

Project Number: 12758-040

Contact: Joshua Henry

P.O. Number:

Phone: 317-603-4843 Fax:

Fax Results:

E-Mail Address: ~~hshenry@testamericainc.com~~

E-Mail Results:

Temperature: 20.0 °C

Turn Around Request:

Custody Seals: Yes No

24 Hours

48 Hours

Custody Seals Intact: Yes No

72 Hours

Total # of Containers:

5 working Day

Standard 10 Working Days

Subject to scheduling and availability (surcharges apply)

Analyses Requested

Sample Information

Lab #	IH Media Type (Filter, Passive Monitor, or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume In Liters	Number of Media per Sample	Analyses Requested
1	AIR	1.565	Dock Particulate	8-25-08	6:30	3:12	532	833	1	X Particulate
2	AIR	1.498	South Particulate	8-25-08	6:30	2:02	502	180	1	X

Instructions / Special Requirements:

Date: 8-25-08 Time: 16:00

Samples Relinquished By: Josh Henry

Received By: J. Henry

8/24/08 10:20

All services are performed subject to the Terms & Conditions on the reverse side.

August 29, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRH1540
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 08/27/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRH1540
Project: N_IH Sampling
Project Number: [none]

Received: 08/27/08
Reported: 08/29/08 13:18

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1540-01

08/26/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1540-02

08/26/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRH1540
 Project: N_IH Sampling
 Project Number: [none]

Received: 08/27/08
 Reported: 08/29/08 13:18

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1540-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.126	<--	8/28/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/26/08
Sample ID: PRH1540-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.132	<--	8/28/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 08/26/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRH1540
 Project: N_IH Sampling
 Project Number: [none]

Received: 08/27/08
 Reported: 08/29/08 13:18

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2829-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2829	P8H2829-BLK1	08-28-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2829-BS1								
Total Particulates, N.O.R.	200	230.0		ug, Total	115%	29.7-116	P8H2829	08-28-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2829-BSD1												
Total Particulates, N.O.R.		210.0		ug, Total	200	105%	29.7-116	9.09	46.8	P8H2829		08-28-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRH1540
Project: N_IH Sampling
Project Number: [none]

Received: 08/27/08
Reported: 08/29/08 13:18

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- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

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August 29, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRH1620
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 08/28/08

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QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRH1620
Project: N_IH Sampling
Project Number: [none]

Received: 08/28/08
Reported: 08/29/08 13:22

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1620-01

08/27/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1620-02

08/27/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRH1620
 Project: N_IH Sampling
 Project Number: [none]

Received: 08/28/08
 Reported: 08/29/08 13:22

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1620-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.124	<--	8/28/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH1620-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.131	<--	8/28/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRH1620
 Project: N_IH Sampling
 Project Number: [none]

Received: 08/28/08
 Reported: 08/29/08 13:22

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8H2829-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8H2829	P8H2829-BLK1	08-28-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8H2829-BS1								
Total Particulates, N.O.R.	200	230.0		ug, Total	115%	29.7-116	P8H2829	08-28-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8H2829-BSD1												
Total Particulates, N.O.R.		210.0		ug, Total	200	105%	29.7-116	9.09	46.8	P8H2829		08-28-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRH1620
Project: N_IH Sampling
Project Number: [none]

Received: 08/28/08
Reported: 08/29/08 13:22

CERTIFICATION SUMMARY

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

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September 04, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRH1702
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 08/29/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRH1702
Project: N_IH Sampling
Project Number: [none]

Received: 08/29/08
Reported: 09/04/08 15:14

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRH1702-01

08/28/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRH1702-02

08/28/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRH1702
 Project: N_IH Sampling
 Project Number: [none]

Received: 08/29/08
 Reported: 09/04/08 15:14

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRH1702-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/28/08
Total Particulates, N.O.R.	<100	<0.234	<--	9/2/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRH1702-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/28/08
Total Particulates, N.O.R.	<100	<0.235	<--	9/2/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRH1702
 Project: N_IH Sampling
 Project Number: [none]

Received: 08/29/08
 Reported: 09/04/08 15:14

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P810224-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P810224	P810224-BLK1	09-02-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P810224-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P810224	09-02-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P810224-BSD1												
Total Particulates, N.O.R.		150.0		ug, Total	200	75%	29.7-116	6.45	46.8	P810224		09-02-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRH1702
Project: N_IH Sampling
Project Number: [none]

Received: 08/29/08
Reported: 09/04/08 15:14

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

September 04, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRI0016
Project Name: N_IH Sampling
Project Number: Hammond MGP
Date Received: 09/02/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRI0016
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 09/02/08
Reported: 09/04/08 15:43

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI0016-01

08/29/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI0016-02

08/29/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRI0016
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 09/02/08
 Reported: 09/04/08 15:43

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0016-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/29/08
Total Particulates, N.O.R.	<100	<0.198	<--	9/4/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI0016-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 08/29/08
Total Particulates, N.O.R.	<100	<0.222	<--	9/4/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRI0016
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 09/02/08
 Reported: 09/04/08 15:43

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8I0404-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8I0404	P8I0404-BLK1	09-04-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8I0404-BS1								
Total Particulates, N.O.R.	200	180.0		ug, Total	90%	29.7-116	P8I0404	09-04-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8I0404-BSD1												
Total Particulates, N.O.R.		160.0		ug, Total	200	80%	29.7-116	11.8	46.8	P8I0404		09-04-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRI0016
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 09/02/08
Reported: 09/04/08 15:43

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

September 05, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRI0089
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/03/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRI0089
Project: N_IH Sampling
Project Number: [none]

Received: 09/03/08
Reported: 09/05/08 08:38

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI0089-01

09/02/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI0089-02

09/02/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRI0089
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/03/08
 Reported: 09/05/08 08:38

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0089-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/02/08
Total Particulates, N.O.R.	<100	<0.196	<--	9/4/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI0089-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/02/08
Total Particulates, N.O.R.	<100	<0.109	<--	9/4/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRI0089
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/03/08
 Reported: 09/05/08 08:38

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8I0404-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8I0404	P8I0404-BLK1	09-04-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8I0404-BS1								
Total Particulates, N.O.R.	200	180.0		ug, Total	90%	29.7-116	P8I0404	09-04-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8I0404-BSD1												
Total Particulates, N.O.R.		160.0		ug, Total	200	80%	29.7-116	11.8	46.8	P8I0404		09-04-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRI0089
Project: N_IH Sampling
Project Number: [none]

Received: 09/03/08
Reported: 09/05/08 08:38

CERTIFICATION SUMMARY

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The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

Canister Samples Chain of Custody Record

PR10089

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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TestAmerica Phoenix
 4645 E. Cotton Center Blvd, Bldg 3, Ste 169
 Phoenix, AZ 85040
 Phone 602.437.3340 Fax 602.454.9303

Client Contact Information

Company: Haley and Aldrich
 Address: 4913 S. Lehman
 City/State/Zip: Phoenix, AZ 85040
 Phone: 317-603-4813
 FAX:
 Project Name:
 Site:
 PO #

Project Manager:

David Demas

Samples Collected By:

Phone: 3
 Email: jdumont@haleyaldrich.com
 Site Contact:
 LAB Contact:
 Analysis Turnaround Time
 Standard (Specify)
 Rush (Specify)

Mins Total

Page 1 of 1 COCS

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
North Particulate	9-2-08	6:30AM		0.4, 1.0, 6.0	510										X			
South Particulate	9-2-08	6:30AM		0.4, 1.0, 6.0	517										X			
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														
				0.4, 1.0, 6.0														

Special Instructions/QC Requirements & Comments:
Total Particulate Analysis,
South Flow rate, 4 min @ 1.203
South Flow Total Flow @ 603
North Flow rate @ 1.300
North Flow Total Flow @ 603

Samples Shipped by: [Signature] Date/Time: 9-2-08 16:00 Samples Received by:

Samples Relinquished by: [Signature] Date/Time: 9-2-08 16:00 Received by:

Relinquished by: [Signature] Date/Time: 9-2-08 16:00 Received by: [Signature]

Lab Use Only
 Shipper Name: Feder 9/3/08 Operated by: [Signature]

September 05, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: Joshua Hunt

Work Order: PRI0186
Project Name: N_IH Sampling
Project Number: Hammond MGP
Date Received: 09/04/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain(s) of Custody, 2 pages, are included and are an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRI0186
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 09/04/08
Reported: 09/05/08 08:52

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Part

PRI0186-01

09/03/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

East Part

PRI0186-02

09/03/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRI0186
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 09/04/08
 Reported: 09/05/08 08:52

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0186-01 (North Part)		Filter	Sample Air Volume:723L		Sampled: 09/03/08	
	ug, Total	mg/m3			ug, Total	
Total Particulates, N.O.R.	<100	<0.138	<--	9/4/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI0186-02 (East Part)		Filter	Sample Air Volume:581L		Sampled: 09/03/08	
	ug, Total	mg/m3			ug, Total	
Total Particulates, N.O.R.	<100	<0.172	<--	9/4/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 Joshua Hunt

Work Order: PRI0186
 Project: N_IH Sampling
 Project Number: Hammond MGP

Received: 09/04/08
 Reported: 09/05/08 08:52

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P810404-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P810404	P810404-BLK1	09-04-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P810404-BS1								
Total Particulates, N.O.R.	200	180.0		ug, Total	90%	29.7-116	P810404	09-04-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P810404-BSD1												
Total Particulates, N.O.R.		160.0		ug, Total	200	80%	29.7-116	11.8	46.8	P810404		09-04-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Joshua Hunt

Work Order: PRI0186
Project: N_IH Sampling
Project Number: Hammond MGP

Received: 09/04/08
Reported: 09/05/08 08:52

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

[X] Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 602.424.9303

www.testamericainc.com

Lab Number
PR10186

Customer Number:

Page 1 of 1

Sampler: 5014

Project Name: Hammond MGD

Project Number:

P.O. Number:

Fax Results: Y

E-Mail Results: Y

N

Name: Haley Stephen Aldrich

Address: 4915 S. Johnson

City, State, Zip: Hammond, Indiana 46

Contact: J. Huff

Phone: 317-603-1843 Fax:

E-Mail Address:

Temperature: _____ °C

Custody Seals Intact: Yes No

Custody Seals Intact: Yes No

Total # of Containers: _____

Turn Around Request:
 24 Hours _____ 48 Hours _____
 72 Hours _____
 5 Working Day _____
 Standard 10 Working Days _____
 Subject to scheduling and availability (surcharges apply)

Sample Information

Lab #	IH Media Type (Filter, Passive Monitor or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume In Liters	Number of Media per Sample	Analyses Requested
1	Filter	1.395	North Part	9-3-08	6:30	8:08	518	723	1	Particulates
2	Filter	1.111	East Part	9-3-08	6:30	3:17	523	581	1	
Instructions / Special Requirements:										

Date: 9-3-08 Time: 16:00

Samples Relinquished By: [Signature]

Received By: [Signature]

9-4-08 0755

[Signature] [Signature]

All services are performed subject to the Terms & Conditions on the reverse side.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Lab Number

PR10186

11 Main Lab - 4645 E. Cotton Center Blvd., Building 3, Suite 189, Phoenix, AZ 85040 602.437.3340 - FAX 602.424.9303

www.testamericainc.com

Customer Number:

Page 1 of 1

Name: Appleby, Steven A.

Sampler: TD1

Address: 4913 Skyway

Project Name: Hammond MCV

City, State, Zip: Hammond, Indiana 46341

Project Number: 1001

Contact: J Ham

P.O. Number: 1001

Phone: 317-603-1843 Fax: 317-603-1843

Fax Results: Y

E-Mail Address:

E-Mail Results: N

Temperature: _____ °C

Turn Around Request: 24 Hours 48 Hours

Custody Seals: Yes ___ No ___

72 Hours

Custody Seals Intact: Yes ___ No ___

5 working Day

Total # of Containers: _____

Standard 10 Working Days

Subject to scheduling and availability (surcharges apply)

Analyses Requested

Sample Information

Lab #	IM Media Type (Filter, Passive Monitor, or Tube)	Flow Rate	Sample Identification	Date	Start Time	Stop Time	Total Minutes	Total Volume in Liters	Number of Media per Sample	Analyses Requested
1	Filter	1.345	North Part	9-3-08	6:30	3:08	518	723	1	Particulates
2	Filter	1.111	East Part	9-3-08	6:30	3:17	523	581	1	

Instructions / Special Requirements:

Date: 9-3-08 Time: 16:00

Samples Relinquished By: [Signature]

Received By: [Signature]

Lab # 9-3-08 16:00 9-3-08 0755

All services are performed subject to the Terms & Conditions on the reverse side.

September 15, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRI0574
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/10/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0574
Project: N_IH Sampling
Project Number: [none]

Received: 09/10/08
Reported: 09/15/08 16:19

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI0574-01

09/08/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI0574-02

09/08/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0574
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/10/08
 Reported: 09/15/08 16:19

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0574-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/08/08
Total Particulates, N.O.R.	<100	<0.229	<--	9/10/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI0574-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/08/08
Total Particulates, N.O.R.	<100	<0.251	<--	9/10/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0574
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/10/08
 Reported: 09/15/08 16:19

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P811024-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P811024	P811024-BLK1	09-10-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P811024-BS1								
Total Particulates, N.O.R.	200	210.0		ug, Total	105%	29.7-116	P811024	09-10-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P811024-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	15.4	46.8	P811024		09-10-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0574
Project: N_IH Sampling
Project Number: [none]

Received: 09/10/08
Reported: 09/15/08 16:19

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

Canister Samples Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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TestAmerica Phoenix
 4645 E. Cotton Center Blvd, Bldg 3, Ste 189
 Phoenix, AZ 85040
 Phone 602.437.3340 Fax 602.454.9303

Client Contact Information

Company: Hubley and Alderson
 Address: 4913 S. Johnson
 City/State/Zip: Phoenix, AZ 85040
 Phone: 317-603-4843
 FAX: _____
 Project Name: _____

Project Manager:

David Dennis

Phone:

317-603-4843

Email:

Site Contact:

LAB Contact: _____

Analysis Turnaround Time

Standard (Specify) _____
 Rush (Specify) _____

PO

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Rate	Flow Controller ID	Canister ID	Analysis														
								TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)			
North Particulate	9-8-08	6:30	12:07	0.4, 1.0, 6.0	1.203	4386																
South Particulate	9-8-08	13:02		0.4, 1.0, 6.0	1.201	391																
				0.4, 1.0, 6.0																		
				0.4, 1.0, 6.0																		
				0.4, 1.0, 6.0																		
				0.4, 1.0, 6.0																		
				0.4, 1.0, 6.0																		
				0.4, 1.0, 6.0																		

Total 1 Particulate Analysis.

Samples Shipped by: [Signature]

Date/Time: 9-8-08 14:00

Samples Received by: _____

Samples Relinquished by: _____

Date/Time: _____

Received by: _____

Relinquished by: [Signature]

Date/Time: 9/10/08 10:35

Received by: [Signature]

Lab Use Only

Shipper Name: _____

Opened by: _____

Condition: _____

20.0

September 18, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRI0672
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/11/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0672
Project: N_IH Sampling
Project Number: [none]

Received: 09/11/08
Reported: 09/18/08 13:55

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI0672-01

09/09/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI0672-02

09/09/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0672
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/11/08
 Reported: 09/18/08 13:55

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0672-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/09/08
Total Particulates, N.O.R.	<100	<0.119	<--	9/18/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI0672-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/09/08
Total Particulates, N.O.R.	<100	<0.158	<--	9/18/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0672
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/11/08
 Reported: 09/18/08 13:55

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P811813-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P811813	P811813-BLK1	09-18-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P811813-BS1								
Total Particulates, N.O.R.	200	140.0		ug, Total	70%	29.7-116	P811813	09-18-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P811813-BSD1												
Total Particulates, N.O.R.		170.0		ug, Total	200	85%	29.7-116	19.4	46.8	P811813		09-18-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0672
Project: N_IH Sampling
Project Number: [none]

Received: 09/11/08
Reported: 09/18/08 13:55

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

September 18, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRI0764
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/12/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 27.5°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0764
Project: N_IH Sampling
Project Number: [none]

Received: 09/12/08
Reported: 09/18/08 14:18

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI0764-01

09/10/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI0764-02

09/10/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0764
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/12/08
 Reported: 09/18/08 14:18

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0764-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.118	<--	9/18/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 09/10/08
Sample ID: PRI0764-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.148	<--	9/18/2008	ZN	100 NIOSH 0500 (Modified)
						Sampled: 09/10/08

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0764
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/12/08
 Reported: 09/18/08 14:18

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P811813-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P811813	P811813-BLK1	09-18-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P811813-BS1								
Total Particulates, N.O.R.	200	140.0		ug, Total	70%	29.7-116	P811813	09-18-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P811813-BSD1												
Total Particulates, N.O.R.		170.0		ug, Total	200	85%	29.7-116	19.4	46.8	P811813		09-18-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0764
Project: N_IH Sampling
Project Number: [none]

Received: 09/12/08
Reported: 09/18/08 14:18

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

September 18, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRI0847
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/15/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 30°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0847
Project: N_IH Sampling
Project Number: [none]

Received: 09/15/08
Reported: 09/18/08 15:01

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI0847-01

09/11/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI0847-02

09/11/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0847
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/15/08
 Reported: 09/18/08 15:01

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI0847-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/11/08
Total Particulates, N.O.R.	<100	<0.11	<--	9/18/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI0847-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/11/08
Total Particulates, N.O.R.	<100	<0.157	<--	9/18/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI0847
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/15/08
 Reported: 09/18/08 15:01

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P811813-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P811813	P811813-BLK1	09-18-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P811813-BS1								
Total Particulates, N.O.R.	200	140.0		ug, Total	70%	29.7-116	P811813	09-18-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P811813-BSD1												
Total Particulates, N.O.R.		170.0		ug, Total	200	85%	29.7-116	19.4	46.8	P811813		09-18-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI0847
Project: N_IH Sampling
Project Number: [none]

Received: 09/15/08
Reported: 09/18/08 15:01

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

October 02, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRI1540
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/29/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI1540
Project: N_IH Sampling
Project Number: [none]

Received: 09/29/08
Reported: 10/02/08 09:09

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI1540-01

09/26/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI1540-02

09/26/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI1540
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/29/08
 Reported: 10/02/08 09:09

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI1540-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/26/08 06:30
Total Particulates, N.O.R.	<100	<0.138	<--	10/1/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI1540-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/26/08 06:30
Total Particulates, N.O.R.	<100	<0.157	<--	10/1/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI1540
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/29/08
 Reported: 10/02/08 09:09

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J0104-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J0104	P8J0104-BLK1	10-01-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J0104-BS1								
Total Particulates, N.O.R.	200	170.0		ug, Total	85%	29.7-116	P8J0104	10-01-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J0104-BSD1												
Total Particulates, N.O.R.		150.0		ug, Total	200	75%	29.7-116	12.5	46.8	P8J0104		10-01-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI1540
Project: N_IH Sampling
Project Number: [none]

Received: 09/29/08
Reported: 10/02/08 09:09

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

Canister Samples Chain of Custody Record

PR11540

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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TestAmerica Phoenix
 4645 E. Cotton Center Blvd, Bldg 3, Ste 189
 Phoenix, AZ 85040
 Phone 602.437.3340 Fax 602.454.9303

Page 1 of 1 COCS

Client Contact Information

Company: Haley and Ald

Address: 4912 S. Lehman Rd

City/State/Zip: Hammond, IN

Phone:

FAX:

Project Name:

Site:

PO #

Project Manager: David Penick

Phone: 317-655-4845

Email:

Site Contact:

LAB Contact:

Analysis Turnaround Time

Standard (Specify)

Rush (Specify)

Samples Collected By:

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Controller ID	Canister ID	Analysis Method	Other
North Particulate	9-26-08	6:30	4:38	0.4, 1.0, 6.0	725	1200	TO-15 (Full or IAQ)	
South Particulate	9-26-08	6:30	4:38	0.4, 1.0, 6.0	6368	6085	TO-14A	
				0.4, 1.0, 6.0			TO-3	
				0.4, 1.0, 6.0			EPA 25C	
				0.4, 1.0, 6.0			ASTM D-1946 (Fixed Gases)	
				0.4, 1.0, 6.0			Other (Please specify in notes section)	
				0.4, 1.0, 6.0			Sample Type	
				0.4, 1.0, 6.0			Indoor Air (IAQ)	
				0.4, 1.0, 6.0			Ambient Air	
				0.4, 1.0, 6.0			Soil Gas	
				0.4, 1.0, 6.0			Landfill Gas	
				0.4, 1.0, 6.0			Other (Please specify in notes section)	

Total Part

Samples Shipped by:

Date/Time:

Samples Received by:

Samples Relinquished by:

Date/Time:

Received by:

Relinquished by:

Date/Time:

Received by:

Lab Use Only

Shipper Name:

Opened by:

Condition:

2008

October 02, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRI1589
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 09/30/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 29.1°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI1589
Project: N_IH Sampling
Project Number: [none]

Received: 09/30/08
Reported: 10/02/08 09:37

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRI1589-01

09/25/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRI1589-02

09/25/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI1589
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/30/08
 Reported: 10/02/08 09:37

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRI1589-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/25/08
Total Particulates, N.O.R.	<100	<0.119	<--	10/1/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRI1589-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/25/08
Total Particulates, N.O.R.	<100	<0.163	<--	10/1/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRI1589
 Project: N_IH Sampling
 Project Number: [none]

Received: 09/30/08
 Reported: 10/02/08 09:37

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J0104-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J0104	P8J0104-BLK1	10-01-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J0104-BS1								
Total Particulates, N.O.R.	200	170.0		ug, Total	85%	29.7-116	P8J0104	10-01-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J0104-BSD1												
Total Particulates, N.O.R.		150.0		ug, Total	200	75%	29.7-116	12.5	46.8	P8J0104		10-01-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRI1589
Project: N_IH Sampling
Project Number: [none]

Received: 09/30/08
Reported: 10/02/08 09:37

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

October 08, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0014
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 10/01/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0014
Project: N_IH Sampling
Project Number: [none]

Received: 10/01/08
Reported: 10/08/08 14:51

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0014-01

09/30/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0014-02

09/30/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0014
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/01/08
 Reported: 10/08/08 14:51

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0014-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/30/08
Total Particulates, N.O.R.	<100	<0.125	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0014-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 09/30/08
Total Particulates, N.O.R.	<100	<0.158	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0014
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/01/08
 Reported: 10/08/08 14:51

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J0805-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J0805	P8J0805-BLK1	10-08-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J0805-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J0805	10-08-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J0805-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	11.8	46.8	P8J0805		10-08-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0014
Project: N_IH Sampling
Project Number: [none]

Received: 10/01/08
Reported: 10/08/08 14:51

CERTIFICATION SUMMARY

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The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

Canister Samples Chain of Custody Record

PR50014

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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TestAmerica Phoenix
 4645 E. Cotton Center Blvd, Bldg 3, Ste 189
 Phoenix, AZ 85040
 Phone 602.437.3340 Fax 602.454.9303

Client Contact Information

Company: Haley & Associates
 Address: 2915 S. Arizona
 City/State/Zip: Tempe AZ 85284
 Phone: _____
 FAX: _____
 Project Name: _____
 Site: _____
 PO # _____

Project Manager:

David Nares
 Phone: 317-663-0543
 Email: _____

Samples Collected By:

Site Contact: _____
 LAB Contact: _____
 Analysis Turnaround Time: _____
 Standard (Specify) _____
 Rush (Specify) _____

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Flow Rate	Flow Controller ID	Total Flow	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
North Particulate	9-29-08	6:30AM	11:30AM	0.4, 1.0, 6.0	1.059	1.330	801	6132												
South Particulate	9-29-08	6:30AM	4:37	0.4, 1.0, 6.0	1.042															
				0.4, 1.0, 6.0																
				0.4, 1.0, 6.0																
				0.4, 1.0, 6.0																
				0.4, 1.0, 6.0																
				0.4, 1.0, 6.0																
				0.4, 1.0, 6.0																

Special Instructions/QC Requirements & Comments:

North & South
 mins = 602
 mins = 607

Total Particulate Analysis.

Samples Shipped by: _____

Date/Time: _____

Samples Received by: _____

Date/Time: _____

Samples Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Relinquished by: _____

Date/Time: _____

Received by: _____

Date/Time: _____

Lab Use Only

Shipper Name: _____

Opened by: _____

Condition: _____

24.7

October 08, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0089
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 10/02/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

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This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

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CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

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PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0089
Project: N_IH Sampling
Project Number: [none]

Received: 10/02/08
Reported: 10/08/08 15:00

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0089-01

09/30/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0089-02

09/30/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0089
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/02/08
 Reported: 10/08/08 15:00

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0089-01 (North Particulate)			Sample Air Volume:798L		Sampled: 09/30/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.125	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0089-02 (South Particulate)			Sample Air Volume:788L		Sampled: 09/30/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.127	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0089
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/02/08
 Reported: 10/08/08 15:00

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J0805-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J0805	P8J0805-BLK1	10-08-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J0805-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J0805	10-08-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J0805-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	11.8	46.8	P8J0805		10-08-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0089
Project: N_IH Sampling
Project Number: [none]

Received: 10/02/08
Reported: 10/08/08 15:00

CERTIFICATION SUMMARY

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
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- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

October 09, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0207
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 10/03/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

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If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0207
Project: N_IH Sampling
Project Number: [none]

Received: 10/03/08
Reported: 10/09/08 09:10

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0207-01

10/01/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0207-02

10/01/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0207
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/03/08
 Reported: 10/09/08 09:10

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0207-01 (North Particulate)			Sample Air Volume:382L		Sampled: 10/01/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.262	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0207-02 (South Particulate)			Sample Air Volume:389L		Sampled: 10/01/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.257	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0207
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/03/08
 Reported: 10/09/08 09:10

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J0805-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J0805	P8J0805-BLK1	10-08-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J0805-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J0805	10-08-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J0805-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	11.8	46.8	P8J0805		10-08-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0207
Project: N_IH Sampling
Project Number: [none]

Received: 10/03/08
Reported: 10/09/08 09:10

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

PR 502009 Canister Samples Chain of Custody Record

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TestAmerica Phoenix
4645 E. Cotton Center Blvd, Bldg 3, Ste 189
Phoenix, AZ 85040
Phone 602.437.3340 Fax 602.454.9303

Client Contact Information: **Project Manager:** David Demas Page 1 of 1 COCs

Company: **Haley and Albrich** **Phone:** 317-603-1843 **Samples Collected By:** J. Hunt

Address: **4919 S. Johnson** **Email:** **City/State/Zip:** Hammond, IN

Phone: **FAX:** **Site Contact:** **LAB Contact:**

Project Name: **Analysis Turnaround Time**

Site: **Standard (Specify)** **Rush (Specify)**

PO #

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (liters)	Flow Rate (L/min)	Tot	Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
North Particulate	10-1-08	6:30AM	11:30	0.4, 1.0, 6.0	1.240	382													
South Particulate	10-1-08	6:30AM	11:30	0.4, 1.0, 6.0	1.300	359													
				0.4, 1.0, 6.0															
				0.4, 1.0, 6.0															
				0.4, 1.0, 6.0															
				0.4, 1.0, 6.0															
				0.4, 1.0, 6.0															
				0.4, 1.0, 6.0															

Special Instructions/QC Requirements & Comments: Total Particulate Analy

Samples Shipped by: **Date/Time:** 10-1-08 **Samples Received by:**

Samples Relinquished by: **Date/Time:** **Received by:**

Relinquished by: **Date/Time:** **Received by:**

Lab Use Only **Shipper Name:** **Condition:** **Opened by:**

October 09, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0330
Project Name: N_IH Sampling
Project Number: [none]
Date Received: 10/07/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20.7°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0330
Project: N_IH Sampling
Project Number: [none]

Received: 10/07/08
Reported: 10/09/08 09:31

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0330-01

10/06/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0330-02

10/06/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0330
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/07/08
 Reported: 10/09/08 09:31

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0330-01 (North Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.109	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0330-02 (South Particulate)						
ug, Total	mg/m3	ppm				
Total Particulates, N.O.R.	<100	<0.116	<--	10/8/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0330
 Project: N_IH Sampling
 Project Number: [none]

Received: 10/07/08
 Reported: 10/09/08 09:31

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J0805-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J0805	P8J0805-BLK1	10-08-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J0805-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J0805	10-08-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J0805-BSD1												
Total Particulates, N.O.R.		180.0		ug, Total	200	90%	29.7-116	11.8	46.8	P8J0805		10-08-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0330
Project: N_IH Sampling
Project Number: [none]

Received: 10/07/08
Reported: 10/09/08 09:31

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica

Canister Samples Chain of Custody Record

PR 510330

THE LEADER IN ENVIRONMENTAL TESTING

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TestAmerica Phoenix
 4645 E. Cotton Center Blvd, Bldg 3, Ste 189
 Phoenix, AZ 85040
 Phone 602.437.3340 Fax 602.454.9303

Client Contact Information

Company: Haley & Aldrich
 Address: 4919 S. Hammen
 City/State/Zip: Hummond, IN 46320
 Phone: _____
 FAX: _____

Project Manager: David Demers
 Phone: 317-407-7670
 Email: _____

Site Contact: J. Bellamy
 LAB Contact: _____

Project Name: Hammond MGP
 Site: _____
 PO #: _____

Analysis Turnaround Time
 Standard (Specify) _____
 Rush (Specify) _____

Samples Collected By: _____

Page 1 of 1 COCS

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Model (liters)	Total Flow Controller ID	Flow Total Canister ID	TO-15 (Full or IAQ)	TO-14A	TO-3	EPA 25C	ASTM D-1946 (Fixed Gases)	Other (Please specify in notes section)	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
<u>North Particulate</u>	<u>10/06/08</u>	<u>6:30 AM</u>	<u>4:30</u>	<u>0.4, 1.0, 6.0</u>	<u>1593</u>	<u>919</u>												
<u>South Particulate</u>	<u>10/06/08</u>	<u>6:30 AM</u>	<u>9:20</u>	<u>0.4, 1.0, 6.0</u>	<u>1599</u>	<u>802</u>												
				<u>0.4, 1.0, 6.0</u>														
				<u>0.4, 1.0, 6.0</u>														
				<u>0.4, 1.0, 6.0</u>														
				<u>0.4, 1.0, 6.0</u>														
				<u>0.4, 1.0, 6.0</u>														

Total Particulates analysis

Samples Shipped by: _____ Date/Time: _____ Samples Received by: _____

Samples Relinquished by: [Signature] Date/Time: 10/06/08 - 5:30 Received by: [Signature]

Relinquished by: Fedex Date/Time: _____ Received by: [Signature]

Lab Use Only Shipper Name: _____ Condition: _____

Opened by: _____

October 15, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0443
Project Name: N_IH Sampling
Project Number: 12758-040
Date Received: 10/08/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

The Chain of Custody, 1 page, is included and is an integral part of this report. This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0443
Project: N_IH Sampling
Project Number: 12758-040

Received: 10/08/08
Reported: 10/15/08 07:49

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0443-01

10/07/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0443-02

10/07/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0443
 Project: N_IH Sampling
 Project Number: 12758-040

Received: 10/08/08
 Reported: 10/15/08 07:49

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0443-01 (North Particulate)						
ug, Total	mg/m3	ppm				Sampled: 10/07/08
Total Particulates, N.O.R.	<100	<0.132	<--	10/14/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0443-02 (South Particulate)						
ug, Total	mg/m3	ppm				Sampled: 10/07/08
Total Particulates, N.O.R.	<100	<0.139	<--	10/14/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0443
 Project: N_IH Sampling
 Project Number: 12758-040

Received: 10/08/08
 Reported: 10/15/08 07:49

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J1431-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J1431	P8J1431-BLK1	10-14-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J1431-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J1431	10-14-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J1431-BSD1												
Total Particulates, N.O.R.		160.0		ug, Total	200	80%	29.7-116	0	46.8	P8J1431		10-14-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0443
Project: N_IH Sampling
Project Number: 12758-040

Received: 10/08/08
Reported: 10/15/08 07:49

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

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TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

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- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.
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Client Contact Information		Project Manager: David Demers		Page 1 of 1 COCs									
Company: Haley & Anderson		Phone: 87-47-7670		Samples Collected By: J. Bellamy									
Address: 4918 S. Hohman		Email:		Other (Please specify in notes section)									
City/State/Zip: Hammond, IN 46320		Site Contact: J. Bellamy		ASTM D-1946 (Fixed Gases)									
Phone:		LAB Contact:		EPA 25C									
FAX:		Analysis Turnaround Time		TO-3									
Project Name: Hammond, MLP		Standard (Specify)		TO-14A									
Site:		Rush (Specify)		TO-15 (Full or IAQ)									
PO #				Other (Please specify in notes section)									
Sample Identification		Sample Date(s)	Time Start	Time Stop	Canister Model (Liters)	Total Flow (L/min) total	Flow Canister ID	Sample Type	Indoor Air (IAQ)	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
North Particulate		10/07/08	6:30am	9:30	0.4, 1.0, 6.0	1.585	759	PR50443-1					
South Particulate		10/07/08	6:30am	4:30	0.4, 1.0, 6.0	1.560	719	↓					
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								
					0.4, 1.0, 6.0								

Special Instructions/QC Requirements & Comments:

Samples Shipped by:	Date/Time:	Samples Received by:
Reinquired by: Bellamy	10/07/08 - 18:30	Received by: David Demers
Relinquished by:	Date/Time:	Received by: J. Bellamy
		10/08 10:35

October 15, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0643
Project Name: N_IH Sampling
Project Number: Hammond, MGP
Date Received: 10/10/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 22.6°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0643
Project: N_IH Sampling
Project Number: Hammond, MGP

Received: 10/10/08
Reported: 10/15/08 08:12

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0643-01

10/09/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0643-02

10/09/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0643
 Project: N_IH Sampling
 Project Number: Hammond, MGP

Received: 10/10/08
 Reported: 10/15/08 08:12

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0643-01 (North Particulate)		Filter	Sample Air Volume:749L		Sampled: 10/09/08	
	ug, Total	mg/m3	ppm		ug, Total	
Total Particulates, N.O.R.	160	0.214	--	10/14/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0643-02 (South Particulate)		Filter	Sample Air Volume:718L		Sampled: 10/09/08	
	ug, Total	mg/m3	ppm		ug, Total	
Total Particulates, N.O.R.	<100	<0.139	<--	10/14/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0643
 Project: N_IH Sampling
 Project Number: Hammond, MGP

Received: 10/10/08
 Reported: 10/15/08 08:12

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J1431-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J1431	P8J1431-BLK1	10-14-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J1431-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J1431	10-14-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J1431-BSD1												
Total Particulates, N.O.R.		160.0		ug, Total	200	80%	29.7-116	0	46.8	P8J1431		10-14-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0643
Project: N_IH Sampling
Project Number: Hammond, MGP

Received: 10/10/08
Reported: 10/15/08 08:12

CERTIFICATION SUMMARY

Analyses included in this report were performed by TestAmerica Laboratories, Inc., Phoenix Laboratory (TAL), 4645 E. Cotton Center Boulevard, Building 3, Suite 189, Phoenix, AZ 85040.

TestAmerica Laboratories, Inc., Phoenix Laboratory (Lab ID 154268) is accredited by the American Industrial Hygiene Association (AIHA) in the industrial hygiene program for the analytical techniques noted on the scope of accreditation for the following methods: NIOSH 0500, NIOSH 0600, NIOSH 1003, NIOSH 1005, NIOSH 1007, NIOSH 1010, NIOSH 1015, NIOSH 1022, NIOSH 1300, NIOSH 1400, NIOSH 1401, NIOSH 1403, NIOSH 1405, NIOSH 1450, NIOSH 1457, NIOSH 1500, NIOSH 1501, NIOSH 1550, NIOSH 1602, NIOSH 1604, NIOSH 1606, NIOSH 1609, NIOSH 1611, NIOSH, 1613, NIOSH 1615, NIOSH 2000, NIOSH 2532, NIOSH 2546, NIOSH 2551, NIOSH 5000, NIOSH 5503, NIOSH 5506, NIOSH 5600, NIOSH 6001, NIOSH 6006, NIOSH 6009, NIOSH 6010, NIOSH 7300, NIOSH 7600, NIOSH 7903, OSHA 7, OSHA 42, OSHA 47, OSHA 48, OSHA 64, OSHA 69, OSHA 111, OSHA ID-140, OSHA ID-121, OSHA 1001, OSHA 1002, OSHA 1003, OSHA 1004, OSHA 1005 and OSHA Chemical and Sampling Information for Silane. Volatile organic compounds on 3M Organic Vapor Monitors, Assay Technology Passive Monitors and SKC Passive Monitors. Formaldehyde and other aldehydes and ketones on Assay Technology Passive Monitor. Aldehydes and ketones by EPA TO-11A.

The TestAmerica Laboratories, Inc., Phoenix Laboratory is also licensed through the State of Arizona (AZ0728) for EPA method TO-15.

TestAmerica Laboratories, Inc., Phoenix Laboratory also holds NELAC accreditation through the State of Oregon (AZ100001) for the analytical techniques noted on the scope of accreditation and the State of New York (11898) for NIOSH 6009.

Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

October 15, 2008

LABORATORY REPORT

Client:

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
Attn: David Demas

Work Order: PRJ0645
Project Name: N_IH Sampling
Project Number: Hammond, IN
Date Received: 10/10/08

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica.

TestAmerica Laboratories, Inc., Phoenix Laboratory certifies that the analytical results contained herein apply only to the specific sample(s) analyzed.

This entire report was reviewed and approved for release.

If you have any questions relating to this analytical report, please contact your Laboratory Project Manager at 1-(602)437-3340

Analyses included in this report were performed by the laboratory shown at the top of this report unless otherwise indicated.

CASE NARRATIVE: SAMPLE RECEIPT: Samples were received intact, at 20°C and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.

PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers.

COMMENTS: No significant observations were made.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Approved By:



Ken Baker
Project Manager

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0645
Project: N_IH Sampling
Project Number: Hammond, IN

Received: 10/10/08
Reported: 10/15/08 09:26

SAMPLE IDENTIFICATION

LAB NUMBER

COLLECTION DATE

CONTAINER TYPE

North Particulate

PRJ0645-01

10/02/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

South Particulate

PRJ0645-02

10/02/08

PVC Filter, 5 micron, 37-mm
Pre-weighed; 3-piece.

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0645
 Project: N_IH Sampling
 Project Number: Hammond, IN

Received: 10/10/08
 Reported: 10/15/08 09:26

ANALYTICAL REPORT

Analyte	Result	Qual	Date Analyzed	Analyst	Rpt Limit	Method
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
Sample ID: PRJ0645-01 (North Particulate)			Sample Air Volume:857L		Sampled: 10/02/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.117	<--	10/14/2008	ZN	100 NIOSH 0500 (Modified)
Sample ID: PRJ0645-02 (South Particulate)			Sample Air Volume:786L		Sampled: 10/02/08	
ug, Total	mg/m3	ppm			ug, Total	
Total Particulates, N.O.R.	<100	<0.127	<--	10/14/2008	ZN	100 NIOSH 0500 (Modified)

Haley & Aldrich-Indiana
 12220 N. Meridian Street
 Carmel, IN 46032-6936
 David Demas

Work Order: PRJ0645
 Project: N_IH Sampling
 Project Number: Hammond, IN

Received: 10/10/08
 Reported: 10/15/08 09:26

PROJECT QUALITY CONTROL DATA

Blank

Analyte	Blank Value	Q	Units	Q.C. Batch	Lab Number	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)						
P8J1431-BLK1						
Total Particulates, N.O.R.	<100		ug, Total	P8J1431	P8J1431-BLK1	10-14-2008

LCS

Analyte	Known Val.	Analyzed Val	Q	Units	% Rec.	Target Range	Batch	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)								
P8J1431-BS1								
Total Particulates, N.O.R.	200	160.0		ug, Total	80%	29.7-116	P8J1431	10-14-2008

LCS Dup

Analyte	Orig. Val.	Duplicate	Q	Units	Spike Conc	% Rec.	Target Range	RPD	Limit	Batch	Sample Duplicated	Analyzed Date
Total Particulates, N.O.R. by NIOSH 0500 (Modified)												
P8J1431-BSD1												
Total Particulates, N.O.R.		160.0		ug, Total	200	80%	29.7-116	0	46.8	P8J1431		10-14-2008

Haley & Aldrich-Indiana
12220 N. Meridian Street
Carmel, IN 46032-6936
David Demas

Work Order: PRJ0645
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Samples were analyzed using methods outlined in references such as:

- OSHA - Occupational Safety and Health Administration, U. S. Department of Labor, OSHA Analytical Methods Manual.
- NIOSH - National Institute for Occupational Safety and Health, U. S. Department of Health and Human Services, NIOSH Manual of Analytical Methods, Fourth Edition, 1994, and Updates. NIOSH Method 7300 analyses are performed using a modified digestion procedure to eliminate the use of perchloric acid.
- EPA - U. S. Environmental Protection Agency, Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, Second Edition, 1999.
- EPA - U. S. Environmental Protection Agency, Analytical Methods, Emission Measurement Center (EMC).

Analytical Comments:

Unless otherwise noted, all method blanks and laboratory control spikes met method and/or laboratory quality control objectives for the analyses included in this report.

Unless otherwise noted, sample results have been corrected for method blank values.

For information concerning certifications of this facility or another TestAmerica facility, please visit our website at www.TestAmericaInc.com

TABLES

TABLE I
REAL TIME DATA AVERAGES AND MAXIMUMS
AMBIENT PERIMETER AIR MONITORING REPORT
FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Sample Location	Total VOCs ¹ (ppm)		Total Particulate ² (mg/m ³)	
	Average	Maximum	Average	Maximum
North	0.000	0.100	0.002	0.140
West	0.002	1.400	0.001	0.060
South	0.000	0.045	0.002	0.100
East	0.000	0.000	0.001	0.062
Off-site	0.000	0.000	0.000	0.000

Notes:

1. TVOC Action Level of 0.25 ppm based on site-specific risk calculation.
2. Particulate Action Level of 15 mg/m³ based on USEPA for short-term (24-hr) ambient concentrations.
3. Maximums are derived from averaging the daily maximum each sampling day.
4. TVOCs measured with PID and Total Particulates were measured with a *personal* Data RAM.

TABLE II
SUMMARY OF CONSTITUENT SPECIFIC RESULTS
AMBIENT PERIMETER AIR MONITORING REPORT
FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Sample Location	Average Concentration (mg/m3)					
	Benzene	Toluene	Ethylbenzene	Xylenes (total)	Naphthalene	B(a)P
North	0.002	0.002	0.002	0.005	0.002	0.00200
West	0.003	0.003	0.003	0.005	0.002	0.00200
South	0.002	0.002	0.002	0.005	0.002	0.00200
East	0.002	0.002	0.002	0.005	0.002	0.00200
Off-Site	0.002	0.002	0.002	0.004	0.002	0.00200
Acceptable Ambient Concentrations	0.090	0.0	1.0	0.30	0.010	0.00032

Notes:

1. "Non-Detect" results are entered as a value equal to 1/2 the sample reporting limit for the purpose of calculating an average concentration.
2. AACs obtained from EPA Integrated Risk Information System (IRIS) database
the exception of B(a)P which was obtained from the EPA Region III Updated Risk Based Concentration (RBC) Table, updated October 2007.

TABLE III
SUMMARY OF PRIORITIZED SAMPLE RESULTS
AMBIENT PERIMETER AIR MONITORING REPORT
FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Date	Location	Results (mg/m ³)					
		Benzene	Toluene	Ethylbenzene	Xylenes (total)	Naphthalene	B(a)P
25-Oct-07	Northern	ND (0.00325)	ND (0.00325)	ND (0.00325)	ND (0.0065)	ND (0.00285)	ND (0.00285)
26-Oct-07	Eastern	ND (0.00235)	ND (0.00235)	ND (0.00235)	ND (0.0047)	ND (0.0039)	ND (0.0039)
29-Oct-07	Eastern	ND (0.00235)	ND (0.00235)	ND (0.00235)	ND (0.0047)	ND (0.003)	ND (0.003)
30-Oct-07	Western	ND (0.00205)	ND (0.00205)	ND (0.00205)	ND (0.0041)	ND (0.00195)	ND (0.00195)
31-Oct-07	Southern	ND (0.0037)	ND (0.0037)	ND (0.0037)	ND (0.0074)		
1-Nov-07	Eastern	ND (0.0023)	ND (0.0023)	ND (0.0023)	ND (0.0046)	ND (0.0029)	ND (0.0029)
2-Nov-07	Northern	ND (0.0026)	ND (0.0026)	ND (0.0026)	ND (0.0052)	ND (0.0023)	ND (0.0023)
5-Nov-07	Western					ND (0.00215)	ND (0.00215)
6-Nov-07	Eastern	ND (0.00205)	ND (0.00205)	ND (0.00205)	ND (0.0041)		
7-Nov-07	Western	ND (0.00255)	ND (0.00255)	ND (0.00255)	ND (0.0051)	ND (0.00185)	ND (0.00185)
8-Nov-07	Southern	ND (0.0038)	ND (0.0038)	ND (0.0038)	ND (0.0076)	ND (0.00245)	ND (0.00245)
9-Nov-07	Northern	ND (0.0019)	ND (0.0019)	ND (0.0019)	ND (0.0038)	ND (0.00205)	ND (0.00205)
12-Nov-07	Eastern	ND (0.0021)	ND (0.0021)	ND (0.0021)	ND (0.0042)	ND (0.0024)	ND (0.0024)
13-Nov-07	Southern	ND (0.00235)	ND (0.00235)	ND (0.00235)	ND (0.0047)	ND (0.00255)	ND (0.00255)
14-Nov-07	Northern	ND (0.00195)	ND (0.00195)	ND (0.00195)	ND (0.0039)	ND (0.00215)	ND (0.00215)
15-Nov-07	Eastern	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.004)	ND (0.0023)	ND (0.0023)
16-Nov-07	Eastern	ND (0.00205)	ND (0.00205)	ND (0.00205)	ND (0.0041)	ND (0.0022)	ND (0.0022)
17-Nov-07	Northern	ND (0.0046)	ND (0.0046)	ND (0.0046)	ND (0.0092)	ND (0.00495)	ND (0.00495)
26-Nov-07	Southern					ND (0.0017)	ND (0.0017)
27-Nov-07	Eastern	ND (0.0019)	ND (0.0019)	ND (0.0019)	ND (0.0038)	ND (0.00245)	ND (0.00245)
28-Nov-07	Northern	ND (0.00185)	ND (0.00185)	ND (0.00185)	ND (0.0037)	ND (0.00185)	ND (0.00185)
29-Nov-07	Western	ND (0.00255)	ND (0.00255)	ND (0.00255)	ND (0.0045)	ND (0.00165)	ND (0.00165)
30-Nov-07	Western	ND (0.004)	ND (0.004)	ND (0.004)	ND (0.008)	ND (0.0025)	ND (0.0025)
1-Dec-07	Southern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.0025)	ND (0.0025)
3-Dec-07	Western	ND (0.002)	ND (0.002)	ND (0.002)	ND (0.004)	ND (0.0017)	ND (0.0017)
4-Dec-07	Southern	ND (0.0031)	ND (0.0031)	ND (0.0031)	ND (0.0062)	ND (0.00235)	ND (0.00235)
6-Dec-07	Southern	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.005)	ND (0.0023)	ND (0.0023)
7-Dec-07	Eastern	ND (0.0024)	ND (0.0024)	ND (0.0024)	ND (0.0048)	ND (0.0022)	ND (0.0022)
8-Dec-07	Southern	ND (0.00305)	ND (0.00305)	ND (0.00305)	ND (0.0061)	ND (0.0023)	ND (0.0023)
10-Dec-07	Northern	ND (0.00185)	ND (0.00185)	ND (0.00185)	ND (0.0037)	ND (0.002)	ND (0.002)
12-Dec-07	Northern	ND (0.00195)	ND (0.00195)	ND (0.00195)	ND (0.0039)	ND (0.00185)	ND (0.00185)
14-Dec-07	Southern	ND (0.0016)	ND (0.0016)	ND (0.0016)	ND (0.0032)	ND (0.00235)	ND (0.00235)
17-Dec-07	Eastern	ND (0.00205)	ND (0.00205)	ND (0.00205)	ND (0.0041)	ND (0.00205)	ND (0.00205)
18-Dec-07	Northern	ND (0.00195)	ND (0.00195)	ND (0.00195)	ND (0.0039)	ND (0.002)	ND (0.002)
19-Dec-07	Southern	ND (0.0017)	ND (0.0017)	ND (0.0017)	ND (0.0034)	ND (0.0023)	ND (0.0023)
20-Dec-07	Northern	ND (0.00205)	ND (0.00205)	ND (0.00205)	ND (0.0041)	ND (0.00195)	ND (0.00195)
15-Jul-08	Eastern	ND (0.00175)	ND (0.00175)	ND (0.00175)	ND (0.0035)	ND (0.00225)	ND (0.00225)
15-Jul-08	Southern	ND (0.0016)	ND (0.0016)	ND (0.0016)	ND (0.0032)	ND (0.00175)	ND (0.00175)
16-Jul-08	Eastern	ND (0.00185)	ND (0.00185)	ND (0.00185)	ND (0.0037)	ND (0.0022)	ND (0.0022)
16-Jul-08	Southern	ND (0.00185)	ND (0.00185)	ND (0.00185)	ND (0.0037)	ND (0.0023)	ND (0.0023)
17-Jul-08	Northern	ND (0.0016)	ND (0.0016)	ND (0.0016)	ND (0.0032)	ND (0.00215)	ND (0.00215)
17-Jul-08	Southern	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0023)	ND (0.0023)
18-Jul-08	Eastern	ND (0.004)	ND (0.004)	ND (0.004)	ND (0.008)	ND (0.0025)	ND (0.0025)
18-Jul-08	Southern	ND (0.004)	ND (0.004)	ND (0.004)	ND (0.008)	ND (0.0025)	ND (0.0025)
22-Jul-08	Northern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.00225)	ND (0.00225)
22-Jul-08	Southern	ND (0.0018)	ND (0.0018)	ND (0.0018)	ND (0.0036)	ND (0.0022)	ND (0.0022)
23-Jul-08	Northern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.0021)	ND (0.0021)
24-Jul-08	Southern	ND (0.0015)	ND (0.0015)	ND (0.0015)	ND (0.003)	ND (0.002)	ND (0.002)
28-Jul-08	Northern	ND (0.0017)	ND (0.0017)	ND (0.0017)	ND (0.0034)	ND (0.00185)	ND (0.00185)
29-Jul-08	Southern	ND (0.0007)	ND (0.0007)	ND (0.0007)	ND (0.0014)	ND (0.00195)	ND (0.00195)
30-Jul-08	Northern	ND (0.0009)	ND (0.0009)	ND (0.0009)	ND (0.0018)	ND (0.002)	ND (0.002)
31-Jul-08	Southern	ND (0.0008)	ND (0.0008)	ND (0.0008)	ND (0.0016)	ND (0.00215)	ND (0.00215)
1-Aug-08	Northern	ND (0.00195)	ND (0.00195)	ND (0.00195)	ND (0.0039)	ND (0.00225)	ND (0.00225)
2-Aug-08	Southern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.0022)	ND (0.0022)
6-Aug-08	Southern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.0021)	ND (0.0021)
7-Aug-08	Southern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.00215)	ND (0.00215)
8-Aug-08	Southern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.0022)	ND (0.0022)
11-Aug-08	Southern	ND (0.0019)	ND (0.0019)	ND (0.0019)	ND (0.0038)	ND (0.00205)	ND (0.00205)
12-Aug-08	Southern	ND (0.00165)	ND (0.00165)	ND (0.00165)	ND (0.0033)	ND (0.00215)	ND (0.00215)
13-Aug-08	Northern	0.0099	ND (0.00185)	ND (0.00185)	ND (0.0037)	ND (0.0025)	ND (0.0025)
13-Aug-08	Southern	ND (0.0017)	ND (0.0017)	ND (0.0017)	ND (0.0034)	ND (0.00215)	ND (0.00215)
14-Aug-08	Southern	ND (0.0034)	ND (0.0034)	ND (0.0034)	ND (0.0068)	ND (0.00215)	ND (0.00215)
15-Aug-08	Southern	ND (0.00285)	ND (0.00285)	ND (0.00285)	ND (0.0057)	ND (0.0022)	ND (0.0022)
18-Aug-08	Southern	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0058)	ND (0.00215)	ND (0.00215)
19-Aug-08	Southern	ND (0.00265)	ND (0.00265)	ND (0.00265)	ND (0.0053)	ND (0.0021)	ND (0.0021)
20-Aug-08	Southern	ND (0.0027)	ND (0.0027)	ND (0.0027)	ND (0.0054)	ND (0.0021)	ND (0.0021)
21-Aug-08	Southern	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0058)	ND (0.0022)	ND (0.0022)
22-Aug-08	Northern	ND (0.00385)	ND (0.00385)	ND (0.00385)	ND (0.0077)	ND (0.003)	ND (0.003)
25-Aug-08	Southern	ND (0.0026)	ND (0.0026)	ND (0.0026)	ND (0.0052)	ND (0.002)	ND (0.002)
26-Aug-08	Southern	ND (0.00275)	ND (0.00275)	ND (0.00275)	ND (0.0055)	ND (0.00205)	ND (0.00205)
27-Aug-08	Western	ND (0.00285)	ND (0.00285)	ND (0.00285)	ND (0.0057)	ND (0.0021)	ND (0.0021)
28-Aug-08	Northern	ND (0.0048)	ND (0.0048)	ND (0.0048)	ND (0.0096)	0.0088	ND (0.0042)
28-Aug-08	Western	ND (0.005)	ND (0.005)	ND (0.005)	ND (0.01)	ND (0.0038)	ND (0.0038)
29-Aug-08	Northern	ND (0.00395)	ND (0.00395)	ND (0.00395)	ND (0.0079)	ND (0.0034)	ND (0.0034)
2-Sep-08	Eastern	ND (0.0038)	ND (0.0038)	ND (0.0038)	ND (0.0076)	ND (0.002)	ND (0.002)
3-Sep-08	Eastern	ND (0.00315)	ND (0.00315)	ND (0.00315)	ND (0.0063)	ND (0.0019)	ND (0.0019)
8-Sep-08	Western	ND (0.004)	ND (0.004)	ND (0.004)	ND (0.008)	ND (0.0025)	ND (0.0025)
9-Sep-08	Northern	ND (0.004)	ND (0.004)	ND (0.004)	ND (0.008)	ND (0.0025)	ND (0.0025)
10-Sep-08	Western	ND (0.00255)	ND (0.00255)	ND (0.00255)	ND (0.0051)	ND (0.002)	ND (0.002)
11-Sep-08	Western	ND (0.0027)	ND (0.0027)	ND (0.0027)	ND (0.0054)	ND (0.00205)	ND (0.00205)
25-Sep-08	Eastern	ND (0.0025)	ND (0.0025)	ND (0.0025)	ND (0.005)	ND (0.00195)	ND (0.00195)
26-Sep-08	Southern	ND (0.0014)	ND (0.0014)	ND (0.0014)	ND (0.0028)	ND (0.002)	ND (0.002)
29-Sep-08	Eastern	ND (0.00135)	ND (0.00135)	ND (0.00135)	ND (0.0027)	ND (0.00205)	ND (0.00205)
30-Sep-08	Eastern	ND (0.0016)	ND (0.0016)	ND (0.0016)	ND (0.0032)	ND (0.0018)	ND (0.0018)
1-Oct-08	Eastern	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.006)	ND (0.004)	ND (0.004)
6-Oct-08	Eastern	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0058)	ND (0.00205)	ND (0.00205)
7-Oct-08	Western	ND (0.003)	ND (0.003)	ND (0.003)	ND (0.006)	ND (0.0023)	ND (0.0023)
9-Oct-08	Southern	ND (0.0029)	ND (0.0029)	ND (0.0029)	ND (0.0058)	ND (0.00245)	ND (0.00245)
Concentration at site perimeter		0.0025	0.0024	0.0024	0.0049	0.0024	0.0023

Notes:

1. Prioritized Samples were identified in the field from the four perimeter air sampling locations likely to represent the "worst case" field conditions.
2. Naphthalene and B(a)P results are reported from the EPA Compendium Method 5515 for PAHs in air.
3. BTEX are reported from the EPA Compendium Method 1515 for VOCs.
4. "ND" denotes Nondetect which results are entered as a value equal to 1/2 the sample reporting limit for the purpose of calculating an average concentration.

TABLE IV

SUMMARY OF PARTICULATE PRIORITIZED SAMPLE RESULTS
 AMBIENT PERIMETER AIR MONITORING REPORT
 FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Date	Location	Results	
		(μg , Total)	(mg/m ³)
10/25/2007	North East	<100	<.105
10/25/2007	North West	<100	<.212
10/25/2007	South East	<100	<.256
10/25/2007	South West	<100	<.133
10/26/2007	North East	<100	<.112
10/26/2007	South East	<100	<.290
10/29/2007	North East	<100	<.0831
10/29/2007	South East	<100	<.216
10/30/2007	North East	<100	<.0802
10/30/2007	South East	<100	<.0830
10/31/2007	North East	<100	<.0764
10/31/2007	South East	<100	<.192
10/31/2007	North West	<100	--
11/1/2007	North West	<100	<.138
11/1/2007	South West	<100	<.118
11/2/2007	South East	<100	<.137
11/2/2007	North East	<100	<.109
11/5/2007	North East	<100	<.128
11/5/2007	South East	<100	<.122
11/6/2007	North East	<100	<.121
11/6/2007	South East	<100	<.103
11/7/2007	North East	<100	<.102
11/7/2007	North West	<100	<.125
11/8/2007	North East	<100	<.121
11/8/2007	South West	<100	<.103
11/9/2007	South West	<100	<.148
11/9/2007	South East	<100	<.114
11/26/2007	North East	<100	<.09029
11/26/2007	North West	<100	<.113
11/27/2007	North West	<100	<.118
11/27/2007	South East	<100	<.0906
11/28/2007	North	<100	<.117
11/28/2007	South	<100	<.0926
11/29/2007	East	<100	<.0892
11/29/2007	West	<100	<.131
12/14/2007	North	<100	<.0903
12/14/2007	South	<100	<.110
12/17/2007	North	<100	<.088
12/17/2007	South	<100	<.109
12/18/2007	North	<100	<.116
12/18/2007	South	<100	<.0922
12/19/2007	North	<100	<.124

TABLE IV (Continued)

SUMMARY OF PARTICULATE PRIORITIZED SAMPLE RESULTS
 AMBIENT PERIMETER AIR MONITORING REPORT
 FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Date	Location	Results	
		(μg , Total)	(mg/m ³)
12/19/2007	South	<100	<.0956
12/20/2007	North	<100	<.117
12/20/2007	South	<100	<.179
7/15/2008	East	<100	<.185
7/15/2008	South	110	0.204
7/16/2008	South	<100	<.0992
7/16/2008	South	<100	<.0908
7/17/2008	North	230	0.21
7/17/2008	South	220	0.203
7/18/2008	East	<100	<.0845
7/18/2008	South	<100	<.0912
7/22/2008	East	<100	<.0911
7/22/2008	South	<100	<.0865
7/23/2008	North	<100	<.0774
7/23/2008	South	<100	<.0859
7/24/2008	North	<100	<.0782
7/24/2008	South	<100	<.0855
7/25/2008	North	<100	<.0985
7/25/2008	South	100	0.0888
7/28/2008	North	140	0.103
7/28/2008	South	200	0.167
7/29/2008	North	120	0.0833
7/29/2008	South	130	0.12
7/30/2008	North	<100	<.0694
7/30/2008	South	<100	<.0912
7/31/2008	North	<100	<.0787
7/31/2008	South	130	0.135
8/1/2008	North	<100	<.0794
8/1/2008	South	<100	<.103
8/2/2008	North	<100	<.0778
8/2/2008	South	<100	<.103
8/6/2008	North	<100	<.0783
8/6/2008	South	<100	<.104
8/7/2008	North	<100	<.078
8/7/2008	South	<100	<.102
8/8/2008	North	<100	<.0782
8/8/2008	South	<100	<.103
8/11/2008	North	<100	<.072
8/11/2008	South	<100	<.0948
8/12/2008	North	<100	<.0768
8/12/2008	South	130	0.132
8/13/2008	North	<100	<.0768

TABLE IV (Continued)

SUMMARY OF PARTICULATE PRIORITIZED SAMPLE RESULTS
 AMBIENT PERIMETER AIR MONITORING REPORT
 FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Date	Location	Results	
		(μg , Total)	(mg/m^3)
8/13/2008	South	<100	<.1
8/14/2008	North	<100	<.13
8/14/2008	South	<100	<.143
8/15/2008	North	<100	<.131
8/15/2008	South	<100	<.141
8/18/2008	North	<100	<.131
8/18/2008	South	<100	<.143
8/19/2008	North	<100	<.125
8/19/2008	South	<100	<.135
8/20/2008	North	<100	<.127
8/20/2008	South	<100	<.136
8/21/2008	North	<100	<.134
8/21/2008	South	100	0.143
8/22/2008	North	<100	<.187
8/22/2008	South	<100	<.184
8/25/2008	North	<100	<.12
8/25/2008	South	<100	<.128
8/26/2008	North	<100	<.126
8/26/2008	South	<100	<.132
8/27/2008	North	<100	<.124
8/27/2008	South	<100	<.131
8/28/2008	North	<100	<.234
8/28/2008	South	<100	<.235
8/29/2008	North	<100	<.198
8/29/2008	South	<100	<.222
9/2/2008	North	<100	<.196
9/2/2008	South	<100	<.109
9/3/2008	North	<100	<.138
9/3/2008	South	<100	<.172
9/8/2008	North	<100	<.229
9/8/2008	South	<100	<.251
9/9/2008	North	<100	<.119
9/9/2008	South	<100	<.158
9/10/2008	North	<100	<.118
9/10/2008	South	<100	<.148
9/11/2008	North	<100	<.11
9/11/2008	South	<100	<.157
9/25/2008	North	<100	<.119
9/25/2008	South	<100	<.163
9/26/2008	North	<100	<.138
9/26/2008	South	<100	<.157
9/30/2008	North	<100	<.125

TABLE IV (Continued)

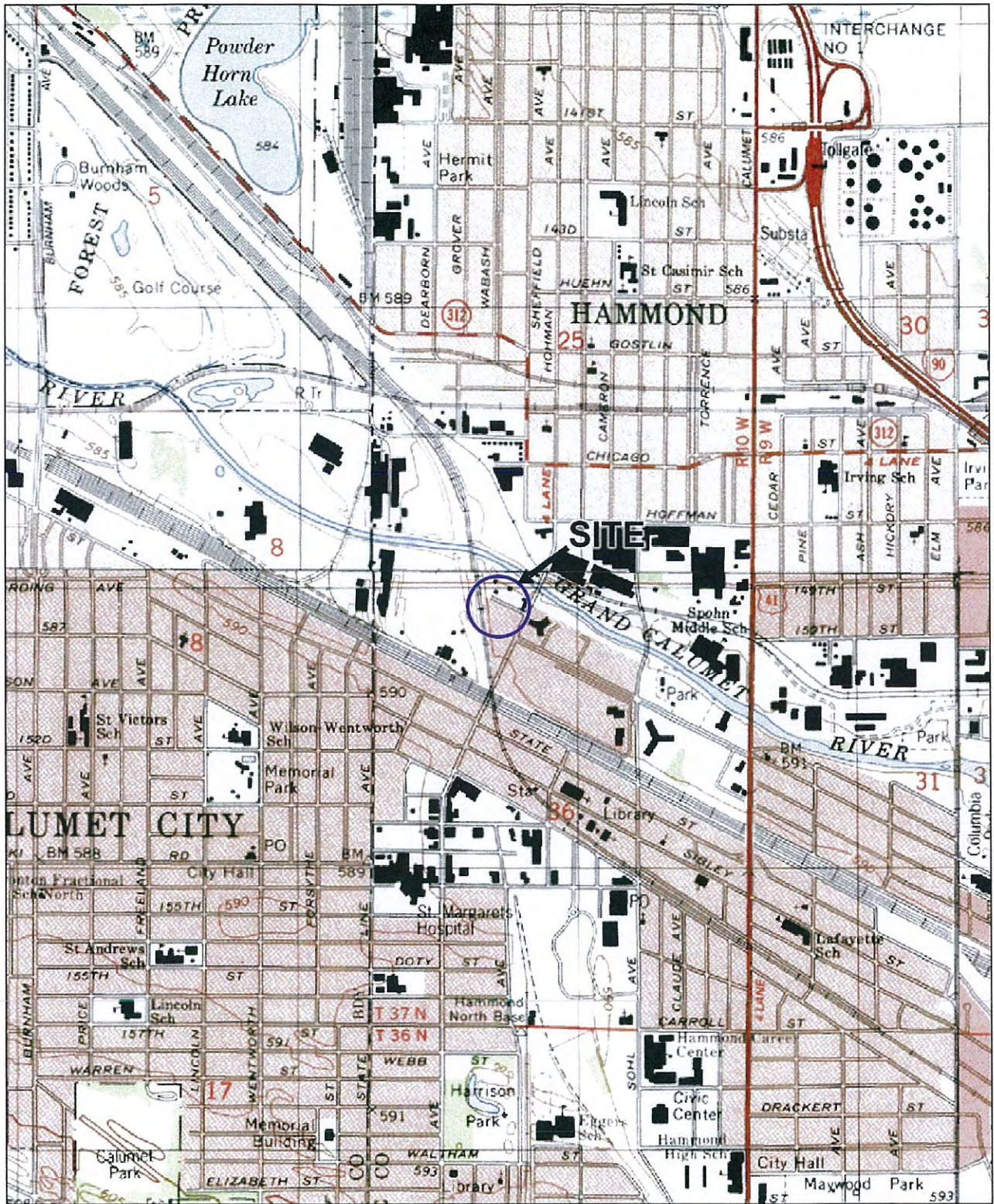
SUMMARY OF PARTICULATE PRIORITIZED SAMPLE RESULTS
 AMBIENT PERIMETER AIR MONITORING REPORT
 FORMER HAMMOND, INDIANA MANUFACTURED GAS PLANT SITE

Date	Location	Results	
		(μg , Total)	(mg/m ³)
9/30/2008	South	<100	<.127
9/30/2008	North	<100	<.125
9/30/2008	South	<100	<.158
10/1/2008	North	<100	<.262
10/1/2008	South	<100	<.257
10/2/2008	North	<100	<.117
10/2/2008	South	<100	<.127
10/6/2008	North	<100	<.109
10/6/2008	South	<100	<.116
10/7/2008	North	<100	<.132
10/7/2008	South	<100	<.139
10/9/2008	North	160	0.214
10/9/2008	South	<100	<.139
Concentration at Site Perimeter			0.1503

Notes and Abbreviations:

1. A total of 139 samples were collected for particulates during the project.
2. <: Less than the indicated reporting limit (RL).
3. -- Information not available or not applicable
4. Test Method was Modified NIOSH 0500
5. Action level for particulates is 15 mg/m³, which has been determined by the U.S. EPA.

FIGURES



SITE COORDINATES: 41°37'26"N 87°31'11"W



U.S.G.S. QUADRANGLE: HIGHLAND, IN

HALEY & ALDRICH

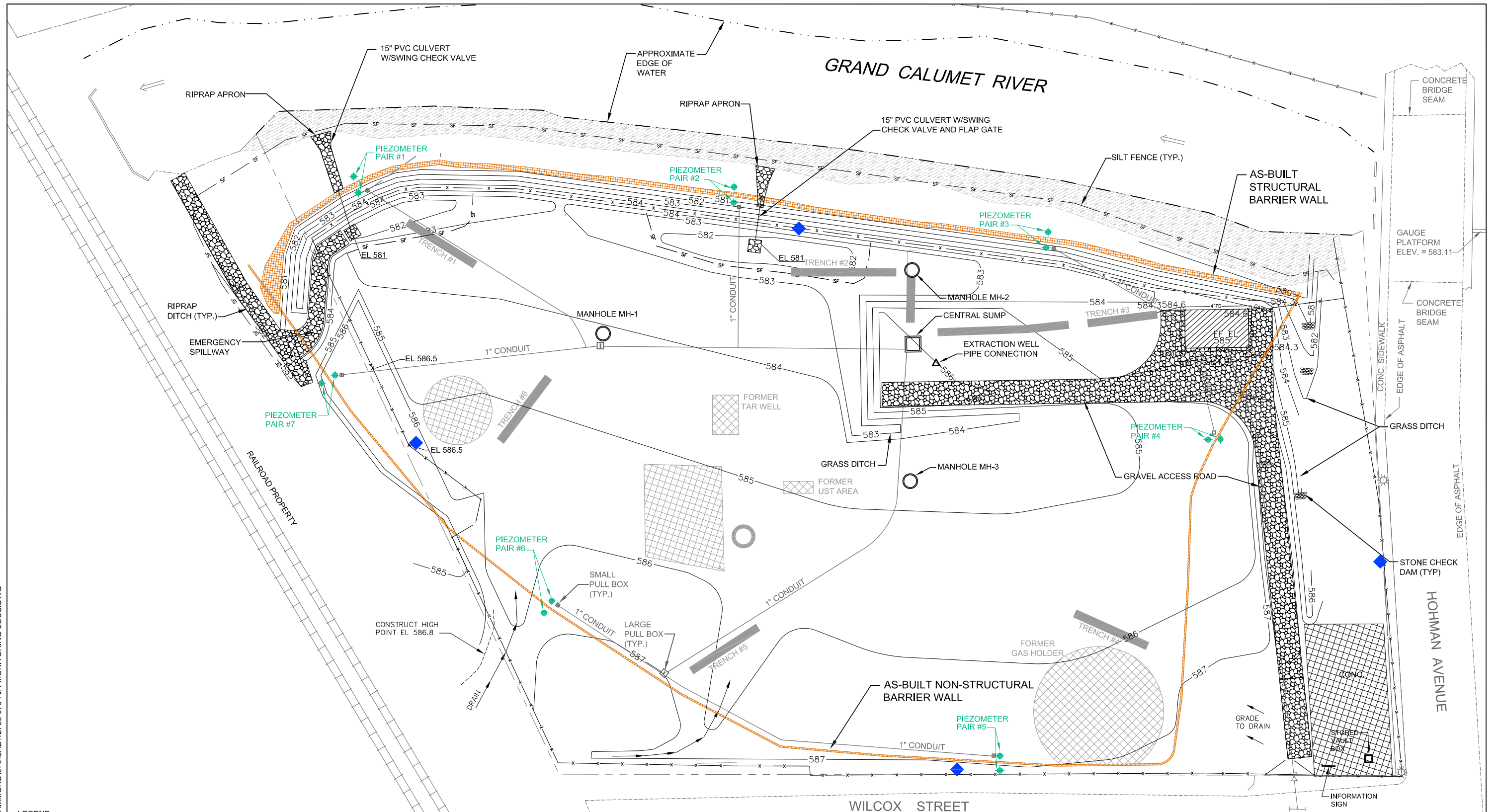
SITE LOCATION MAP
 NIPSCO
 UPLAND REMEDIAL ACTION FORMER MGP SITE
 HAMMOND, INDIANA

PROJECT LOCUS

SCALE: 1:24,000
 MAY 2009

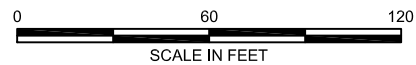
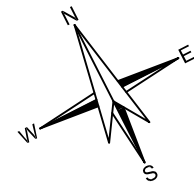
FIGURE 1

\\CLECOMMON\PROJECTS\12758 - HAMMOND\070\CAD\12758-070-AIR-MONITORING-LOC.DWG



- LEGEND:**
- RAILROAD TRACKS
 - PROPERTY BOUNDARY
 - CHAIN LINK FENCE
 - SILT FENCE
 - APPROXIMATE EDGE OF RIVER
 - GROUND SURFACE TOPOGRAPHY (DESIGN GRADE SHOWN, ACTUAL GRADE ±0.5 FT.)
 - AS-BUILT LOCATION OF STRUCTURAL BARRIER WALL
 - AS-BUILT LOCATION OF NON-STRUCTURAL BARRIER WALL
 - APPROXIMATE LOCATION OF VIBRATING WIRE PIEZOMETER
 - REMAINING SUBSURFACE STRUCTURE
 - AIR MONITORING LOCATION (APPROXIMATE)

- NOTES:**
1. PLAN MODIFIED FROM SEVEE & MAHER'S REVISED GRADING PLAN, (REVISION DATE 10/30/08).
 2. ELEVATIONS REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM, 1929 (NGVD 29).



HALEY & ALDRICH AIR MONITORING REPORT
FORMER MGP SITE
HAMMOND, INDIANA

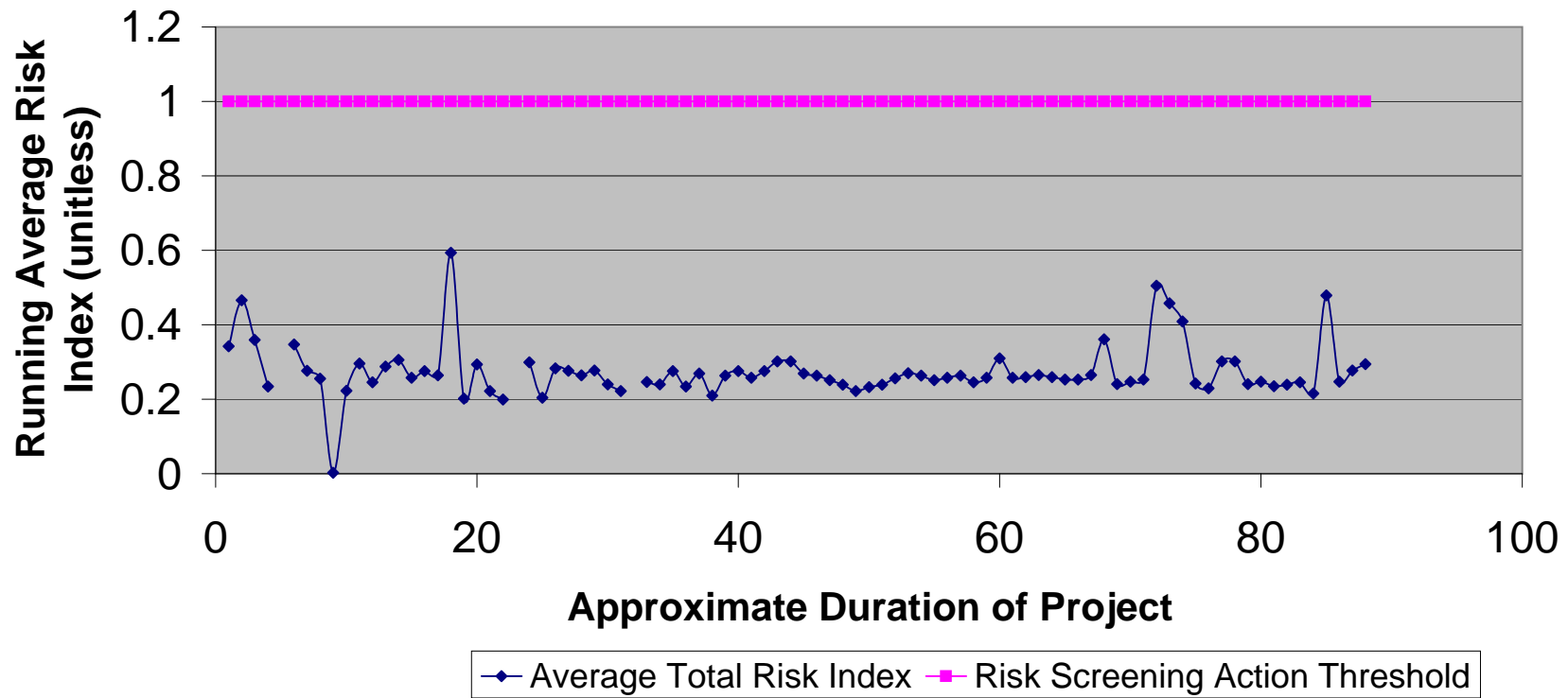
SITE PLAN

SCALE: AS SHOWN
MAY 2009

FIGURE 2

Ambient Air Quality Risk Screening Evaluation

Fenceline Total Risk Index Running Averages Based on Air Monitoring Analytical Data and Dispersion Modeling



HALEY & ALDRICH AMBIENT PERIMETER AIR MONITORING SUMMARY REPORT
FORMER HAMMOND INDIANA MANUFACTURED GAS

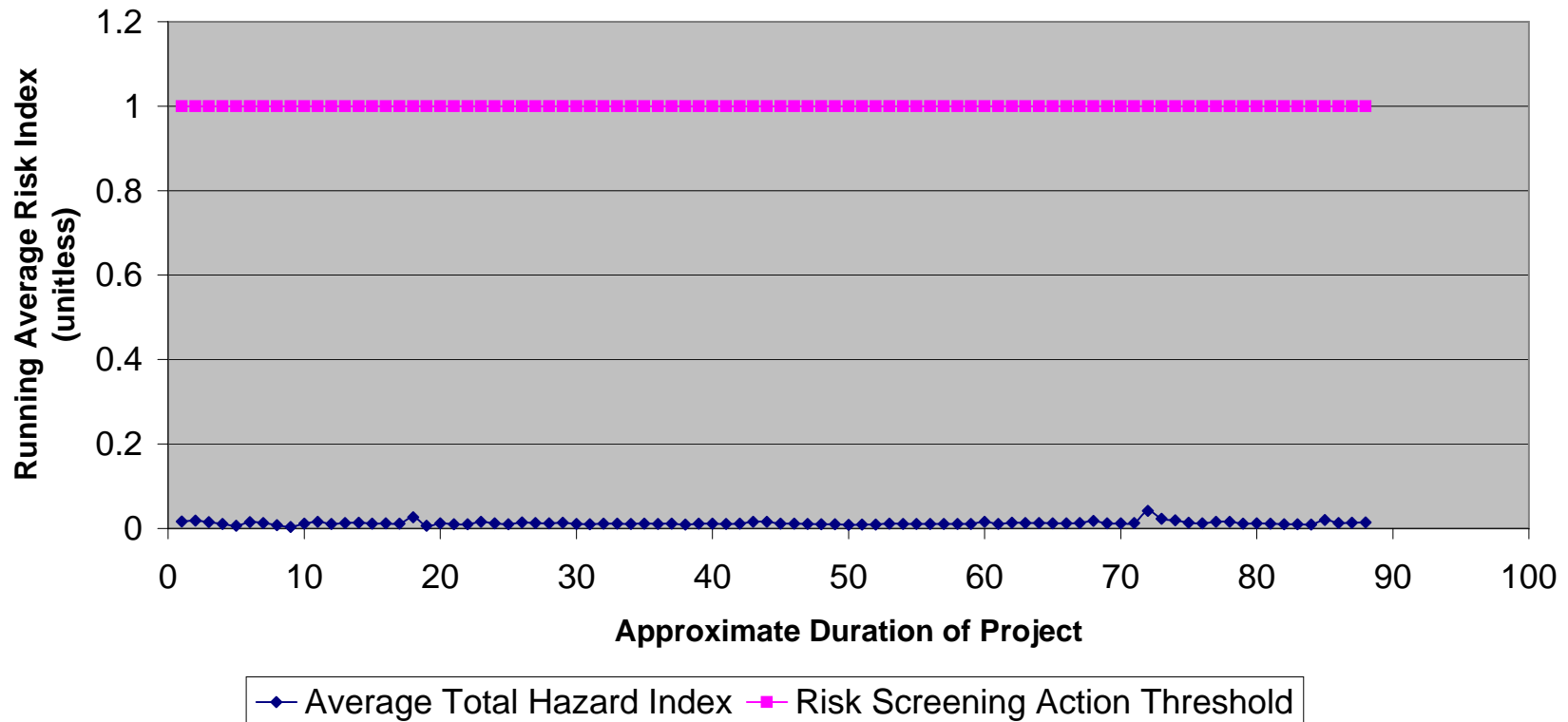
CUMULATIVE AVERAGE RISK INDEX (CANCER)

SCALE: NONE
MAY 2009

FIGURE 3

Ambient Air Quality Risk Screening Evaluation

Fenceline Total Hazard Index Running Averages Based on Air Monitoring Analytical Data and Dispersion Modeling



HALEY & ALDRICH AMBIENT PERIMETER AIR MONITORING SUMMARY REPORT
FORMER HAMMOND INDIANA MANUFACTURED GAS
CUMULATIVE AVERAGE HAZARD INDEX (NON-CANCER)

SCALE: NONE
MAY 2009

FIGURE 4

APPENDIX F

Offsite Waste Transport Log

HADC WASTE TRACKING LOG
Project #12758

Transport Date	Waste Profile Number	Manifest Number	Transporter	Truck Number	Container Type	Waste Description Characteristic/Code	Disposal Facility/Location	Load/Ticket ID	Disposal Date	Quantity (tons)	Notes
8/19/08	X22-5	00001	Brite Cartage	294	End Dump	Non-haz soil	Allied Newton Co. LF	686836	8/19/08	27.03	
8/19/08	X22-5	00002	Cartage	160	End Dump	Non-haz soil	Allied Newton Co. LF	686861	8/19/08	28.1	
8/19/08	X22-5	00003	Dave's	234	End Dump	Non-haz soil	Allied Newton Co. LF	686846	8/19/08	28.78	
8/19/08	X22-5	00004	B+P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	686888	8/19/08	21.91	
8/19/08	X22-5	00005	Dave's	232	End Dump	Non-haz soil	Allied Newton Co. LF	686860	8/19/08	23.89	
8/19/08	X22-5	00006	American Bulk	461	End Dump	Non-haz soil	Allied Newton Co. LF	686864	8/19/08	27.87	
8/19/08	X22-5	00007	Keldorn	25	End Dump	Non-haz soil	Allied Newton Co. LF	696904	8/19/08	20.83	
8/19/08	X22-5	00008	Keldorn	22	End Dump	Non-haz soil	Allied Newton Co. LF	696906	8/19/08	23.03	
8/19/08	X22-5	00009	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	686909	8/19/08	19.89	
8/19/08	X22-5	00010	Keldorn	23	End Dump	Non-haz soil	Allied Newton Co. LF	686908	8/19/08	21.86	
8/19/08	X22-5	00011	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	686882	8/19/08	23.94	
8/19/08	X22-5	00012	Dave's	233	End Dump	Non-haz soil	Allied Newton Co. LF	686881	8/19/08	21.12	
8/19/08	X22-5	00013	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	686926	8/19/08	22.81	
8/19/08	X22-5	00014	Cartage	294	End Dump	Non-haz soil	Allied Newton Co. LF	687054	8/19/08	27.6	
8/19/08	X22-5	00015	Dave's	234	End Dump	Non-haz soil	Allied Newton Co. LF	687083	8/19/08	25.7	
8/19/08	X22-5	00016	Cartage	160	End Dump	Non-haz soil	Allied Newton Co. LF	687114	8/19/08	27.66	
8/19/08	X22-5	00017	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	687104	8/19/08	26.06	
8/19/08	X22-5	00018	Keldorn	25	End Dump	Non-haz soil	Allied Newton Co. LF	687128	8/19/08	23.73	
8/19/08	X22-5	00019	Keldorn	22	End Dump	Non-haz soil	Allied Newton Co. LF	687126	8/19/08	23.91	
8/19/08	X22-5	00020	Keldorn	23	End Dump	Non-haz soil	Allied Newton Co. LF	687130	8/19/08	25.05	
8/19/08	X22-5	00021	Dave's	233	End Dump	Non-haz soil	Allied Newton Co. LF	687139	8/19/08	25.08	
8/19/08	X22-5	00022	Dave's	232	End Dump	Non-haz soil	Allied Newton Co. LF	687144	8/19/08	22.36	
8/19/08	X22-5	00023	B+P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	687146	8/19/08	27.04	

HADC WASTE TRACKING LOG
Project #12758

8/19/08	X22-5	00024	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	687157	8/19/08	25.11	
8/19/08	X22-5	00025	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	687141	8/19/08	27.08	
8/19/08	X22-5	00026	Cartage	294	End Dump	Non-haz soil	Allied Newton Co. LF	687422	8/20/08	29.95	
8/19/08	X22-5	00027	Dave's	234	End Dump	Non-haz soil	Allied Newton Co. LF	687441	8/20/08	24.72	
8/19/08	X22-5	00028	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	687310	8/19/08	26.55	
8/19/08	X22-5	00029	Cartage	84	End Dump	Non-haz soil	Allied Newton Co. LF	687322	8/19/08	24.49	
8/19/08	X22-5	00030	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	687320	8/19/08	27.26	
8/19/08	X22-5	00031	B+P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	687323	8/20/08	25.66	
8/20/08	X22-5	00032	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	687560	8/20/08	27.46	
8/20/08	X22-5	00033	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	687578	8/20/08	24.66	
8/20/08	X22-5	00034	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	687569	8/20/08	25.98	
8/20/08	X22-5	00035	Keldorn	25	End Dump	Non-haz soil	Allied Newton Co. LF	687588	8/20/08	21.8	
8/20/08	X22-5	00036	Keldorn	22	End Dump	Non-haz soil	Allied Newton Co. LF	687585	8/20/08	19.87	
8/20/08	X22-5	00037	Cartage	160	End Dump	Non-haz soil	Allied Newton Co. LF	687631	8/20/08	25.77	
8/20/08	X22-5	00038	Keldorn	20	End Dump	Non-haz soil	Allied Newton Co. LF	687725	8/20/08	20.08	
8/20/08	X22-5	00039	Cartage	294	End Dump	Non-haz soil	Allied Newton Co. LF	687668	8/20/08	29.35	
8/20/08	X22-5	00040	Dave's	234	End Dump	Non-haz soil	Allied Newton Co. LF	687684	8/20/08	31.27	
8/20/08	X22-5	00041	Cartage	84	End Dump	Non-haz soil	Allied Newton Co. LF	687704	8/20/08	25.25	
8/20/08	X22-5	00042	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	687786	8/20/08	25.39	
8/20/08	X22-5	00043	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	687798	8/20/08	25.38	
8/20/08	X22-5	00044	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	687832	8/20/08	24.66	
8/20/08	X22-5	00045	Keldorn	25	End Dump	Non-haz soil	Allied Newton Co. LF	687853	8/20/08	16.4	
8/20/08	X22-5	00046	Keldorn	23	End Dump	Non-haz soil	Allied Newton Co. LF	687857	8/20/08	24.01	
8/20/08	X22-5	00047	Cartage	294	End Dump	Non-haz soil	Allied Newton Co. LF	687972	8/20/08	24.15	
8/20/08	X22-5	00048	Cartage	160	End Dump	Non-haz soil	Allied Newton Co. LF	687916	8/20/08	23.75	

HADC WASTE TRACKING LOG
Project #12758

8/20/08	X22-5	00049	Dave's	234	End Dump	Non-haz soil	Allied Newton Co. LF	687904	8/20/08	25.27	
8/20/08	X22-5	00050	Keldorn	20	End Dump	Non-haz soil	Allied Newton Co. LF	687940	8/20/08	15.59	
8/20/08	X22-5	00051	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	688002	8/20/08	23.88	
8/20/08	X22-5	00052	Cartage	84	End Dump	Non-haz soil	Allied Newton Co. LF	688027	8/20/08	24.15	Lanfill documented this load as a B-P Farms #154
8/20/08	X22-5	00053	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	688064	8/20/08	22.62	
8/20/08	X22-5	00054	Keldorn	25	End Dump	Non-haz soil	Allied Newton Co. LF	688206	8/21/08	20.14	
8/20/08	X22-5	00055	Keldorn	23	End Dump	Non-haz soil	Allied Newton Co. LF	688209	8/21/08	21.58	
8/20/08	X22-5	00056	Dave's	234	End Dump	Non-haz soil	Allied Newton Co. LF	688235	8/21/08	29.01	
8/21/08	X22-5	00057	left turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	688350	8/21/08	20.02	
8/21/08	X22-5	00058	Brite Cartage	27	End Dump	Non-haz soil	Allied Newton Co. LF	688362	8/21/08	20.35	
8/21/08	X22-5	00059	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	688357	8/21/08	20.27	
8/21/08	X22-5	00060	Sals	128	End Dump	Non-haz soil	Allied Newton Co. LF	688352	8/21/08	19.19	
8/21/08	X22-5	00061	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	688359	8/21/08	17.62	
8/21/08	X22-5	00062	B&L	84	End Dump	Non-haz soil	Allied Newton Co. LF	688365	8/21/08	18.97	
8/21/08	X22-5	00063	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	688363	8/21/08	18.5	
8/21/08	X22-5	00064	Keldron	20	End Dump	Non-haz soil	Allied Newton Co. LF	688323	8/21/08	18.03	
8/21/08	X22-5	00065	Keldron	22	End Dump	Non-haz soil	Allied Newton Co. LF	688325	8/21/08	17.88	
8/21/08	X22-5	00066	Tommy Hawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	688454	8/21/08	18.99	
8/21/08	X22-5	00067	Keldron	22	End Dump	Non-haz soil	Allied Newton Co. LF	688578	8/21/08	19.68	
8/21/08	X22-5	00068	Keldron	20	End Dump	Non-haz soil	Allied Newton Co. LF	688581	8/21/08	20.39	
8/21/08	X22-5	00069	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	688567	8/21/08	20.26	
8/21/08	X22-5	00070	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	688569	8/21/08	21.28	
8/21/08	X22-5	00071	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	688571	8/21/08	22.63	
8/21/08	X22-5	00072	Brite Cartage	27	End Dump	Non-haz soil	Allied Newton Co. LF	688587	8/21/08	20.43	
8/21/08	X22-5	00073	B&L	84	End Dump	Non-haz soil	Allied Newton Co. LF	688592	8/21/08	22.11	

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8/21/08	X22-5	00074	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	688590	8/21/08	19.44	
8/21/08	X22-5	00075	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	688665	8/21/08	19.29	
8/21/08	X22-5	00076	Tommy Hawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	688771	8/21/08	19.43	
8/21/08	X22-5	00077	Left Turn	100	End Dump	Non-haz soil	Allied Newton Co. LF	688794	8/21/08	20.38	
8/21/08	X22-5	00078	Sal's	128	End Dump	Non-haz soil	Allied Newton Co. LF	688797	8/21/08	18.94	
8/21/08	X22-5	00079	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	688800	8/21/08	20.7	
8/21/08	X22-5	00080	Keldron	22	End Dump	Non-haz soil	Allied Newton Co. LF	688801	8/21/08	20.84	
8/21/08	X22-5	00081	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	688806	8/21/08	21.07	
8/21/08	X22-5	00082	Brite Cartage	27	End Dump	Non-haz soil	Allied Newton Co. LF	688807	8/21/08	19.38	
8/22/08	X22-5	00083	D&E	50	End Dump	Non-haz soil	Allied Newton Co. LF	689025	8/22/08	17.67	
8/22/08	X22-5	00084	Brite Cartage	2	End Dump	Non-haz soil	Allied Newton Co. LF	689023	8/22/08	17.88	
8/22/08	X22-5	00085	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	689019	8/22/08	20.48	
8/22/08	X22-5	00086	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	689070	8/22/08	21.23	
8/22/08	X22-5	00087	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	689044	8/22/08	23.41	
8/22/08	X22-5	00088	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	689047	8/22/08	17.79	
8/22/08	X22-5	00089	B&L	84	End Dump	Non-haz soil	Allied Newton Co. LF	689046	8/22/08	25.82	
8/22/08	X22-5	00090	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	689050	8/22/08	19.91	
8/22/08	X22-5	00091	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	689091	8/22/08	25.32	
8/22/08	X22-5	00092	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	689261	8/22/08	24.17	
8/22/08	X22-5	00093	Brite Cartage	2	End Dump	Non-haz soil	Allied Newton Co. LF	689258	8/22/08	20.81	
8/22/08	X22-5	00094	D&E	50	End Dump	Non-haz soil	Allied Newton Co. LF	689266	8/22/08	21.15	
8/22/08	X22-5	00095	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	689284	8/22/08	23.3	
8/22/08	X22-5	00096	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	689293	8/22/08	20.97	
8/22/08	X22-5	00097	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	689306	8/22/08	20.19	
8/22/08	X22-5	00098	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	689305	8/22/08	22.85	

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8/22/08	X22-5	00099	B&L	84	End Dump	Non-haz soil	Allied Newton Co. LF	689330	8/22/08	26.15	
8/22/08	X22-5	00100	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	689335	8/22/08	26.85	
8/22/08	X22-5	00101	Brite Cartage	2	End Dump	Non-haz soil	Allied Newton Co. LF	689499	8/22/08	17.6	
8/22/08	X22-5	00102	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	689502	8/22/08	22.32	
8/22/08	X22-5	00103	D&E	50	End Dump	Non-haz soil	Allied Newton Co. LF	689511	8/22/08	17.04	
8/22/08	X22-5	00104	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	689541	8/22/08	19.92	
8/22/08	X22-5	00105	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	689548	8/22/08	21.36	
8/22/08	X22-5	00106	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	689554	8/22/08	22.67	
8/22/08	X22-5	00107			End Dump	Non-haz soil	Allied Newton Co. LF				VOID-NOT USED
8/22/08	X22-5	00108	B&L	84	End Dump	Non-haz soil	Allied Newton Co. LF	689563	8/22/08	22.18	
8/25/08	X22-5	00109	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	690045	8/25/08	19.6	
8/25/08	X22-5	00110	D&E	57	End Dump	Non-haz soil	Allied Newton Co. LF	690051	8/25/08	18.97	
8/25/08	X22-5	00111	Dave,s	142	End Dump	Non-haz soil	Allied Newton Co. LF	690058	8/25/08	25.98	
8/25/08	X22-5	00112	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	690070	8/25/08	25.72	
8/25/08	X22-5	00113	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	690073	8/25/08	24.82	
8/25/08	X22-5	00114	Tamahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	690079	8/25/08	26.92	
8/25/08	X22-5	00115	ThornCreek	9	End Dump	Non-haz soil	Allied Newton Co. LF	690117	8/25/08	22.64	
8/25/08	X22-5	00116	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	690090	8/25/08	26.67	
8/25/08	X22-5	00117	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	690264	8/25/08	22.72	
8/25/08	X22-5	00118	D&E	57	End Dump	Non-haz soil	Allied Newton Co. LF	690279	8/25/08	22.78	
8/25/08	X22-5	00119	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	690274	8/25/08	23.37	
8/25/08	X22-5	00120	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	690281	8/25/08	21.85	
8/25/08	X22-5	00121	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	690292	8/25/08	25.81	
8/25/08	X22-5	00122	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	690294	8/25/08	23.84	
8/25/08	X22-5	00123	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	690315	8/25/08	24.83	

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8/25/08	X22-5	00124	ThornCreek	9	End Dump	Non-haz soil	Allied Newton Co. LF	690356	8/25/08	23.77	
8/25/08	X22-5	00125	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	690500	8/25/08	24.43	
8/25/08	X22-5	00126	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	690503	8/25/08	24.67	
8/25/08	X22-5	00127	D&E	57	End Dump	Non-haz soil	Allied Newton Co. LF	690516	8/25/08	23.64	
8/25/08	X22-5	00128	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	690521	8/25/08	24.61	
8/25/08	X22-5	00129	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	690547	8/25/08	27.8	
8/25/08	X22-5	00130	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	690553	8/25/08	27.27	
8/25/08	X22-5	00131	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	690565	8/25/08	26.56	
10/3/08	X22-5	00132	RWC	75	End Dump	Non-haz soil	Allied Newton Co. LF				Pending
10/3/08	X22-5	00133	RWC	72	End Dump	Non-haz soil	Allied Newton Co. LF				Pending
10/6/08	X22-5	00134	RWC	72	End Dump	Non-haz soil	Allied Newton Co. LF		10/6/08	16.43	email noted tonnage - manifest pending
10/6/08	X22-5	00135	RWC	75	End Dump	Non-haz soil	Allied Newton Co. LF		10/6/08	18.39	email noted tonnage - manifest pending
10/13/08	X22-5	00136	Brites	4	End Dump	Non-haz soil	Allied Newton Co. LF	716422	10/13/08	20.81	
10/13/08	X22-5	00137	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	716416	10/13/08	21.47	
10/13/08	X22-5	00138	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	716418	10/13/08	19.72	
10/13/08	X22-5	00139	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	716426	10/13/08	17.59	
10/13/08	X22-5	00140	Brite Cartage	4	End Dump	Non-haz soil	Allied Newton Co. LF	716614	10/13/08	19.77	
10/13/08	X22-5	00141	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	716617	10/13/08	21.01	
10/13/08	X22-5	00142	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	716618	10/13/08	20.29	
10/13/08	X22-5	00143	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	716333	10/13/08	17.25	
10/13/08	X22-5	00144	Brite Cartage	4	End Dump	Non-haz soil	Allied Newton Co. LF	716827	10/13/08	23.78	
10/13/08	X22-5	00145	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	716837	10/13/08	19.58	
10/13/08	X22-5	00146	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	716838	10/13/08	21.78	
10/13/08	X22-5	00147	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	716840	10/13/08	21.96	
10/14/08	10/14/08	00148	RWC	75	End Dump	Non-haz soil	Allied Newton Co. LF		10/14/08		Pending

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10/14/08	10/14/08	00149	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/14/08		Pending
10/14/08	10/14/08	00150	RWC	75	End Dump	Non-haz soil	Allied Newton Co. LF		10/14/08		Pending
10/14/08	10/14/08	00151	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/14/08		Pending
10/16/08	10/16/08	00152	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/16/08		Pending
10/16/08	10/16/08	00153	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/16/08		Pending
10/17/08	X22-5	00154	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	719063	10/17/08	23.83	
10/17/08	X22-5	00155	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	719065	10/17/08	24.38	
10/17/08	X22-5	00156	D&E	50	End Dump	Non-haz soil	Allied Newton Co. LF	719066	10/17/08	21.16	
10/17/08	X22-5	00157	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	719074	10/17/08	23.29	
10/17/08	X22-5	00158	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	719098	10/17/08	22.27	
10/17/08	X22-5	00159	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	719099	10/17/08	19.5	
10/17/08	X22-5	00160	D&E	50	End Dump	Non-haz soil	Allied Newton Co. LF	719322	10/17/08	22.63	
10/17/08	X22-5	00161	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	719324	10/17/08	23.43	
10/17/08	X22-5	00162	Mag	806	End Dump	Non-haz soil	Allied Newton Co. LF	719320	10/17/08	26.41	
10/17/08	X22-5	00163	B&P Farms	154	End Dump	Non-haz soil	Allied Newton Co. LF	719325	10/17/08	25.74	
10/17/08	X22-5	00164	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	719360	10/17/08	21.31	
10/17/08	X22-5	00165	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	719362	10/17/08	24.73	
10/20/08	X22-5	00166	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	719900	10/20/08	21.51	
10/20/08	X22-5	00167	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	719915	10/20/08	23.06	
10/20/08	X22-5	00168	K&D	121	End Dump	Non-haz soil	Allied Newton Co. LF	719924	10/20/08	22.17	
10/20/08	X22-5	00169	K&D	123	End Dump	Non-haz soil	Allied Newton Co. LF	719925	10/20/08	24.29	
10/20/08	X22-5	00170	K&D	303	End Dump	Non-haz soil	Allied Newton Co. LF	719928	10/20/08	26.15	
10/20/08	X22-5	00170	K&D	111	End Dump	Non-haz soil	Allied Newton Co. LF	719932	10/20/08	23.58	
10/20/08	X22-5	00172	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/20/08		Pending
10/20/08	X22-5	00173	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	720110	10/20/08	25.91	

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10/20/08	X22-5	00174	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	720139	10/20/08	26.36	
10/20/08	X22-5	00175	K&D	123	End Dump	Non-haz soil	Allied Newton Co. LF	720140	10/20/08	24.56	
10/20/08	X22-5	00176	K&D	121	End Dump	Non-haz soil	Allied Newton Co. LF	720152	10/20/08	26.68	
10/20/08	X22-5	00177	K&D	303	End Dump	Non-haz soil	Allied Newton Co. LF	720154	10/20/08	28.5	
10/20/08	X22-5	00178	K&D	111	End Dump	Non-haz soil	Allied Newton Co. LF	720188	10/20/08	23.36	
10/20/08	X22-5	00179	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/20/08		Pending
10/20/08	X22-5	00180	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	720323	10/20/08	24.12	
10/20/08	X22-5	00181	K&D	123	End Dump	Non-haz soil	Allied Newton Co. LF	720336	10/20/08	24.87	
10/20/08	X22-5	00182	Tomahawk	510	End Dump	Non-haz soil	Allied Newton Co. LF	720349	10/20/08	24.51	
10/20/08	X22-5	00183	K&D	121	End Dump	Non-haz soil	Allied Newton Co. LF	720357	10/20/08	24.32	
10/20/08	X22-5	00184	K&D	303	End Dump	Non-haz soil	Allied Newton Co. LF	720358	10/20/08	24.7	
10/21/08	X22-5	00185	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	720585	10/21/08	26.08	
10/21/08	X22-5	00186	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	720605	10/21/08	24.84	
10/21/08	X22-5	00187	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	720602	10/21/08	23.8	
10/21/08	X22-5	00188	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	720614	10/21/08	24.8	
10/21/0p8	X22-5	00189	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/21/08		Pending
10/21/08	X22-5	00190	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	720613	10/21/08	22.97	
10/21/08	X22-5	00191	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	720623	10/21/08	21.96	
10/21/08	X22-5	00192	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	720777	10/1/08	23.89	
10/1/08	X22-5	00193	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	720844	10/21/08	21.24	
10/21/08	X22-5	019\4	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	720865	10/21/08	23.9	
10/21/08	X22-5	00195	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	720864	10/21/08	24.4	
10/21/08	X22-5	00196	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	720860	10/21/08	22.49	
10/21/08	X22-5	00197	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	720863	10/21/08	21.4	
10/21/08	X22-5	00198	Dave's	142	End Dump	Non-haz soil	Allied Newton Co. LF	720999	10/21/08	23.85	

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10/21/08	X22-5	00199	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	721056	10/21/08	21.3	
10/21/08	X22-5	00200	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	721602	10/21/08	25.98	
10/21/08	X22-5	00201	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	721061	10/21/08	22.53	
10/22/08	X22-5	00202	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		10/22/08		Pending
10/23/08	X22-5	00203	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	721980	10/23/08	20.28	
10/23/08	X22-5	00204	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	721983	10/23/08	21.32	
10/23/08	X22-5	00205	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	721996	10/23/08	19.9	
10/23/08	X22-5	00206	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	722200	10/23/098	23.47	
10/23/08	X22-5	00207	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	722197	10/23/08	23.15	
10/23/08	X22-5	00208	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	722198	10/23/08	19.82	
10/23/08	X22-5	00209	D&E	51	End Dump	Non-haz soil	Allied Newton Co. LF	722414	10/23/08	16.6	
10/23/08	X22-5	00210	D&E	59	End Dump	Non-haz soil	Allied Newton Co. LF	722412	10/23/08	20.76	
10/23/08	X22-5	00211	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	722401	10/23/08	19.84	
11/17/08	X22-5	00212	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	733595	11/17/08	24.3	
11/17/08	X22-5	00213	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	733609	11/17/08	20.84	
11/17/08	X22-5	00214	D&E	58	End Dump	Non-haz soil	Allied Newton Co. LF	733616	11/17/08	19.48	
11/17/08	X22-5	00215	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		11/17/08	41.15	email noted tonnage - manifest pending
11/17/08	X22-5	00216	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF		11/17/08		Pending
11/17/08	X22-5	00217	Brite Cartage	58	End Dump	Non-haz soil	Allied Newton Co. LF	733891	11/17/08	23.35	
11/17/08	X22-5	00218	Brite Cartage	21	End Dump	Non-haz soil	Allied Newton Co. LF	733910	11/17/08	21.55	
11/17/09	X22-5	00219	RWC	74	End Dump	Non-haz soil	Allied Newton Co. LF		11/17/08	41.15	email noted tonnage - manifest pending
11/17/08	X22-5	00220	Brite Cartage	23	End Dump	Non-haz soil	Allied Newton Co. LF	734057	11/17/08	25.33	
11/18/08	X22-5	00221	K&D	123	End Dump	Non-haz soil	Allied Newton Co. LF	734244	11/18/08	23.17	
11/17/08	X22-5	00222	K&D	303	End Dump	Non-haz soil	Allied Newton Co. LF	734257	11/18/08	26.69	
11/18/08	X22-5	00223	K&D	111	End Dump	Non-haz soil	Allied Newton Co. LF	734265	11/18/08	20.62	

HADC WASTE TRACKING LOG**Project #12758**

11/18/08	X22-5	00224	K&D	249	End Dump	Non-haz soil	Allied Newton Co. LF	734395	11/18/08	23.15	
11/18/08	X22-5	00225	K&D	123	End Dump	Non-haz soil	Allied Newton Co. LF	734515	11/18/08	25.46	
11/18/08	X22-5	00226	K&D	111	End Dump	Non-haz soil	Allied Newton Co. LF	734563	11/18/08	23.9	
11/18/08	X22-5	00227	K&D	249	End Dump	Non-haz soil	Allied Newton Co. LF	734620	11/18/08	21.61	
11/18/09	X22-5	00228	K&D	123	End Dump	Non-haz soil	Allied Newton Co. LF	734699	11/18/08	18.89	

APPENDIX G

Laboratory Report, Waste Characterization for Tar Well Area

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ANALYTICAL REPORT

PROJECT NO. 12758-040

UPLAND REMEDIAL ACTION

Lot #: A7K020232

David Demas

Haley & Aldrich Inc.
12220 North Meridian St.
Suite 165
Carmel, IN 46032

TESTAMERICA LABORATORIES, INC.

Denise Pohl

Denise Pohl
Project Manager

November 21, 2007

CASE NARRATIVE

A7K020232

The following report contains the analytical results for two solid samples submitted to TestAmerica North Canton by Haley & Aldrich Inc. from the Upland Remedial Action Site, project number 12758-040. The samples were received November 01, 2007, according to documented sample acceptance procedures.

TestAmerica utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. Preliminary results were provided to Greg Mowatt on November 15, 2007. A summary of QC data for these analyses is included at the back of the report.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by a dry weight adjustment footnote at the bottom of the analytical report page. The list of parameters which are never reported on a dry weight basis is included on the Sample Summary.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Please refer to the Quality Control Elements Narrative following this case narrative for additional quality control information.

If you have any questions, please call the Project Manager, Denise Pohl, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT." The total number of pages in this report is 56.

CASE NARRATIVE (continued)

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 1.3°C.

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 7312242. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

Sample(s) SOILS COMPOSITE had elevated reporting limits due to TICs.

GC/MS SEMIVOLATILES

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

The matrix spike/matrix spike duplicate(s) for batch(es) 7309335 had RPD's and recoveries outside acceptance limits. However, since the associated method blank(s) and laboratory control sample(s) were in control, no corrective action was necessary.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 7312055. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

CASE NARRATIVE (continued)

GC/MS SEMIVOLATILES (continued)

Batch(es) 7312055 had RPDs outside QC criteria in the LCS/LCSD, but recoveries were within QC criteria; therefore, no corrective action was required.

The internal standard areas were outside acceptance limits for sample(s) SOILS COMPOSITE due to matrix effects. (Refer to IS report following this Case Narrative for additional detail.)

PESTICIDES-8081

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 7312045. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

For the LCSD associated with batch(es) 7312045, the recovery for one surrogate compound is outside acceptance criteria. Since the method criterion is that one of two surrogate compounds must meet acceptance criteria, no corrective action was required.

Sample(s) SOILS COMPOSITE had elevated reporting limits due to matrix interference.

For batch(es) 7312045, the CCVs exceeded method criteria on the high side. Since the sample results were below the requested reporting limit, the results were accepted.

POLYCHLORINATED BIPHENYLS-8082

The analytical results met the requirements of the laboratory's QA/QC program.

HERBICIDES-8151

There were no client requested Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples in batch(es) 7312044. Therefore, the laboratory has included a Laboratory Control Sample Duplicate (LCSD) in the QC batch. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system.

CASE NARRATIVE (continued)

METALS

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

GENERAL CHEMISTRY

The sample(s) that contain results between the MDL and the RL were flagged with "B". There is the possibility of false positive or mis-identification at these quantitation levels. The acceptance criteria for the ICB, CCB, and Method Blank are +/- the standard reporting limit (SRL).

There are no Total Solid sample duplicates for batch(es) 7311115. Sample duplicates were performed in the batch, but the parent samples (on another lot) were archived.

Reactive Cyanide and/or Reactive Sulfide results have been reported herein with an SW846 method reference. Although the analyses are based on the referenced methods, US EPA has amended sections 7.3.3 and 7.3.4 of SW846-Chapter Seven to withdraw the Cyanide and Sulfide reactivity guidance from *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* in June of 2005 (6/14/05; 70 FR 34537). The analyses are no longer approved by USEPA for use in complying with RCRA regulations.

QUALITY CONTROL ELEMENTS NARRATIVE

TestAmerica North Canton (formerly STL North Canton) conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. TestAmerica North Canton (formerly STL North Canton) requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples.

For SW846/RCRA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

For 600 series/CWA methods, QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE (MS). An MS is prepared and analyzed at a 10% frequency for GC Methods and at a 5% frequency for GC/MS methods.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. Multi peak responders may not be included in the target spike list due to co-elution. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. Comparison of only the failed parameters from the first batch are evaluated. The only exception to the rework requirement is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed in the table.)

<u>Volatile (GC or GC/MS)</u>	<u>Semivolatile (GC/MS)</u>	<u>Metals ICP-MS</u>	<u>Metals ICP Trace</u>
Methylene Chloride, Acetone, 2-Butanone	Phthalate Esters	Copper, Iron, Zinc, Lead, Calcium, Magnesium, Potassium, Sodium, Barium, Chromium, Manganese	Copper, Iron, Zinc, Lead

QUALITY CONTROL ELEMENTS NARRATIVE (continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

For certain methods (600 series methods/CWA), a Matrix Spike is required in place of a Matrix Spike/Matrix Spike Duplicate (MS/MSD) or Matrix Spike/Sample Duplicate (MS/DU).

The acceptance criteria do not apply to samples that are diluted.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is reprepared and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be reprepared and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

The acceptance criteria do not apply to samples that are diluted. All other surrogate recoveries will be reported.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide and PCB methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria. The second surrogate must have a recovery of 10% or greater.



TestAmerica North Canton (formerly STL North Canton) Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#200004), Kansas (#E10336), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio VAP
(#CL0024), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit,

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Data File: \\cansvr11\dd\chem\MSS\a4hp7.i\71113a.b\KAE311A1.D Page 1
Report Date: 16-Nov-2007 12:47

STL North Canton

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: a4hp7.i Calibration Date: 13-NOV-2007
Lab File ID: KAE311A1.D Calibration Time: 09:25
Lab Smp Id: kae311a1 Client Smp ID: SOILS COMPOSITE
Analysis Type: SV Level: MED
Quant Type: ISTD Sample Type: WATER
Operator: 001710
Method File: \\cansvr11\dd\chem\MSS\a4hp7.i\71113a.b\8270P.m
Misc Info:

COMPOUND	STANDARD	AREA LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	132465	66233	264930	77288	-41.65
2 Naphthalene-d8	560885	280443	1121770	323869	-42.26
3 Acenaphthene-d10	296451	148226	592902	159696	-46.13
4 Phenanthrene-d10	558344	279172	1116688	260570	-53.33 <-
5 Chrysene-d12	460850	230425	921700	228237	-50.47 <-
6 Perylene-d12	385371	192686	770742	243697	-36.76

COMPOUND	STANDARD	RT LIMIT		SAMPLE	%DIFF
		LOWER	UPPER		
1 1,4-Dichlorobenze	3.40	2.90	3.90	3.39	-0.16
2 Naphthalene-d8	4.28	3.78	4.78	4.29	0.12
3 Acenaphthene-d10	5.55	5.05	6.05	5.55	-0.10
4 Phenanthrene-d10	6.63	6.13	7.13	6.63	-0.00
5 Chrysene-d12	8.58	8.08	9.08	8.59	0.06
6 Perylene-d12	9.94	9.44	10.44	9.95	0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

EXECUTIVE SUMMARY - Detection Highlights

A7K020232

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL</u> <u>METHOD</u>
SOILS COMPOSITE 10/31/07 14:40 001				
Heptachlor	0.00039 J	0.0025	mg/L	SW846 8081A
Arsenic - TCLP	0.0040 B	0.50	mg/L	SW846 6010B
Barium - TCLP	0.45 B	10.0	mg/L	SW846 6010B
Cadmium - TCLP	0.0073 B	0.10	mg/L	SW846 6010B
Lead - TCLP	0.16 B	0.50	mg/L	SW846 6010B
Acenaphthene	2600000	1300000	ug/kg	SW846 8270C
Acenaphthylene	360000 J	1300000	ug/kg	SW846 8270C
Anthracene	1500000	1300000	ug/kg	SW846 8270C
Benzo(a)anthracene	1000000 J	1300000	ug/kg	SW846 8270C
Benzo(a)pyrene	800000 J	1300000	ug/kg	SW846 8270C
Benzo(b)fluoranthene	820000 J	1300000	ug/kg	SW846 8270C
Benzo(ghi)perylene	420000 J	1300000	ug/kg	SW846 8270C
Benzo(k)fluoranthene	330000 J	1300000	ug/kg	SW846 8270C
Chrysene	920000 J	1300000	ug/kg	SW846 8270C
Fluoranthene	3000000	1300000	ug/kg	SW846 8270C
Fluorene	1600000	1300000	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	360000 J	1300000	ug/kg	SW846 8270C
1-Methylnaphthalene	3200000	1300000	ug/kg	SW846 8270C
2-Methylnaphthalene	4000000	1300000	ug/kg	SW846 8270C
Naphthalene	5300000	1300000	ug/kg	SW846 8270C
Phenanthrene	4000000	1300000	ug/kg	SW846 8270C
Pyrene	2700000	1300000	ug/kg	SW846 8270C
Benzene	950 J	6600	ug/kg	SW846 8260B
Ethylbenzene	10000	6600	ug/kg	SW846 8260B
Toluene	1800 J	6600	ug/kg	SW846 8260B
Xylenes (total)	18000 B	13000	ug/kg	SW846 8260B
Flashpoint	>180		deg F	SW846 1010
pH (solid)	8.0		No Units	SW846 9045C
Percent Solids	74.3	10.0	%	MCAWW 160.3 MOD
Total Phenols	5.5	1.3	mg/kg	SW846 9065
SORCE COMPOSITE 10/31/07 14:50 002				
Benzene	1.1	0.025	mg/L	SW846 8260B

ANALYTICAL METHODS SUMMARY

A7K020232

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Chlorinated Herbicides by GC	SW846 8151A
Inductively Coupled Plasma (ICP) Metals	SW846 6010B
Mercury in Liquid Waste (Manual Cold-Vapor)	SW846 7470A
Organochlorine Pesticides	SW846 8081A
Paint Filter Test	SW846 9095A
Pensky-Martens Method for Determining Ignitability	SW846 1010
Phenolics	SW846 9065
PCBs by SW-846 8082	SW846 8082
Reactive Cyanide	SW846 7.3.3
Reactive Sulfide	SW846 7.3.4
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Soil and Waste pH	SW846 9045C
Total Residue as Percent Solids	MCAWW 160.3 MOD
Volatile Organics by GC/MS	SW846 8260B

References:

- MCAWW "Methods for Chemical Analysis of Water and Wastes",
EPA-600/4-79-020, March 1983 and subsequent revisions.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

A7K020232

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
KAE31	001	SOILS COMPOSITE	10/31/07	14:40
KAE45	002	SORCE COMPOSITE	10/31/07	14:50

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

GC/MS Volatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311A0 Matrix.....: SO
Date Sampled...: 10/31/07 14:40 Date Received..: 11/01/07
Prep Date.....: 11/05/07 Analysis Date..: 11/17/07
Prep Batch #...: 7312242
Dilution Factor: 19.76
% Moisture.....: 26 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	950 J	6600	ug/kg
Ethylbenzene	10000	6600	ug/kg
Toluene	1800 J	6600	ug/kg
Xylenes (total)	18000 B	13000	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	72 DIL	(59 - 138)
1,2-Dichloroethane-d4	88 DIL	(61 - 130)
Toluene-d8	65 DIL	(60 - 143)
4-Bromofluorobenzene	87 DIL	(47 - 158)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

Elevated reporting limits due to TICs.

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

TCLP GC/MS Volatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311A2 Matrix.....: SO
 Date Sampled...: 10/31/07 14:40 Date Received...: 11/01/07
 Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date...: 11/08/07
 Leach Batch #...: P731105 Prep Batch #...: 7312544
 Dilution Factor: 1
 % Moisture.....: 26 Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
Benzene	ND	0.025	mg/L
2-Butanone (MEK)	ND	0.25	mg/L
Carbon tetrachloride	ND	0.025	mg/L
Chlorobenzene	ND	0.025	mg/L
Chloroform	ND	0.025	mg/L
1,2-Dichloroethane	ND	0.025	mg/L
1,1-Dichloroethylene	ND	0.070	mg/L
Tetrachloroethylene	ND	0.070	mg/L
Trichloroethylene	ND	0.050	mg/L
Vinyl chloride	ND	0.025	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	107	(86 - 125)
1,2-Dichloroethane-d4	108	(80 - 122)
Toluene-d8	101	(90 - 122)
4-Bromofluorobenzene	95	(84 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

GC/MS Semivolatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311AX Matrix.....: SO
 Date Sampled...: 10/31/07 14:40 Date Received..: 11/01/07
 Prep Date.....: 11/05/07 Analysis Date..: 11/12/07
 Prep Batch #...: 7309335
 Dilution Factor: 1000
 % Moisture.....: 26 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Acenaphthene	2600000	1300000	ug/kg
Acenaphthylene	360000 J	1300000	ug/kg
Anthracene	1500000	1300000	ug/kg
Benzo(a)anthracene	1000000 J	1300000	ug/kg
Benzo(a)pyrene	800000 J	1300000	ug/kg
Benzo(b)fluoranthene	820000 J	1300000	ug/kg
Benzo(ghi)perylene	420000 J	1300000	ug/kg
Benzo(k)fluoranthene	330000 J	1300000	ug/kg
Chrysene	920000 J	1300000	ug/kg
Dibenz(a,h)anthracene	ND	1300000	ug/kg
Fluoranthene	3000000	1300000	ug/kg
Fluorene	1600000	1300000	ug/kg
Indeno(1,2,3-cd)pyrene	360000 J	1300000	ug/kg
1-Methylnaphthalene	3200000	1300000	ug/kg
2-Methylnaphthalene	4000000	1300000	ug/kg
Naphthalene	5300000	1300000	ug/kg
Phenanthrene	4000000	1300000	ug/kg
Pyrene	2700000	1300000	ug/kg

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	0.0 DIL, *	(24 - 112)
2-Fluorobiphenyl	0.0 DIL, *	(34 - 110)
Terphenyl-d14	0.0 DIL, *	(41 - 119)
Phenol-d5	0.0 DIL, *	(28 - 110)
2-Fluorophenol	0.0 DIL, *	(26 - 110)
2,4,6-Tribromophenol	0.0 DIL, *	(10 - 118)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

* Surrogate recovery is outside stated control limits.

Results and reporting limits have been adjusted for dry weight.

J Estimated result. Result is less than RL.

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

TCLP GC/MS Semivolatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311A1 Matrix.....: SO
 Date Sampled...: 10/31/07 14:40 Date Received..: 11/01/07
 Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date..: 11/13/07
 Leach Batch #..: P731107 Prep Batch #...: 7312055
 Dilution Factor: 1
 % Moisture.....: 26 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
o-Cresol	ND	0.0040	mg/L
m-Cresol & p-Cresol	ND	0.040	mg/L
1,4-Dichlorobenzene	ND	0.0040	mg/L
2,4-Dinitrotoluene	ND	0.020	mg/L
Hexachlorobenzene	ND	0.020	mg/L
Hexachlorobutadiene	ND	0.020	mg/L
Hexachloroethane	ND	0.020	mg/L
Nitrobenzene	ND	0.0040	mg/L
Pentachlorophenol	ND	0.040	mg/L
Pyridine	ND	0.020	mg/L
2,4,5-Trichloro-phenol	ND	0.020	mg/L
2,4,6-Trichloro-phenol	ND	0.020	mg/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	72	(29 - 111)
2-Fluorobiphenyl	76	(22 - 110)
Terphenyl-d14	80	(40 - 119)
Phenol-d5	57	(10 - 110)
2-Fluorophenol	26	(10 - 110)
2,4,6-Tribromophenol	54	(17 - 117)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

GC Semivolatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311AJ Matrix.....: SO
Date Sampled...: 10/31/07 14:40 Date Received..: 11/01/07
Prep Date.....: 11/03/07 Analysis Date..: 11/07/07
Prep Batch #...: 7307027
Dilution Factor: 1
% Moisture.....: 26 Method.....: SW846 8082

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>
Aroclor 1016	ND	44	ug/kg
Aroclor 1221	ND	44	ug/kg
Aroclor 1232	ND	44	ug/kg
Aroclor 1242	ND	44	ug/kg
Aroclor 1248	ND	44	ug/kg
Aroclor 1254	ND	44	ug/kg
Aroclor 1260	ND	44	ug/kg

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	38	(10 - 196)
Decachlorobiphenyl	81	(10 - 199)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

TCLP GC Semivolatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311AU Matrix.....: SO
 Date Sampled...: 10/31/07 14:40 Date Received...: 11/01/07
 Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date...: 11/09/07
 Leach Batch #...: P731107 Prep Batch #...: 7312045
 Dilution Factor: 5
 % Moisture.....: 26 Method.....: SW846 8081A

PARAMETER	RESULT	REPORTING	
		LIMIT	UNITS
Chlordane (technical)	ND	0.025	mg/L
Endrin	ND	0.0025	mg/L
Heptachlor	0.00039 J	0.0025	mg/L
Heptachlor epoxide	ND	0.0025	mg/L
Lindane	ND	0.0025	mg/L
Methoxychlor	ND	0.0050	mg/L
Toxaphene	ND	0.10	mg/L

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Decachlorobiphenyl	134 DIL, *	(31 - 115)
Tetrachloro-m-xylene	138 DIL, *	(47 - 110)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311
 DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
 * Surrogate recovery is outside stated control limits.
 J Estimated result. Result is less than RL.
 Elevated reporting limits. The reporting limits are elevated due to matrix interference.

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

TCLP GC Semivolatiles

Lot-Sample #...: A7K020232-001 Work Order #...: KAE311AV Matrix.....: SO
Date Sampled...: 10/31/07 14:40 Date Received..: 11/01/07
Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date..: 11/09/07
Leach Batch #..: P731107 Prep Batch #...: 7312044
Dilution Factor: 1
% Moisture.....: 26 Method.....: SW846 8151A

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>	
		<u>LIMIT</u>	<u>UNITS</u>
2,4-D	ND	0.50	mg/L
2,4,5-TP (Silvex)	ND	0.10	mg/L

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
2,4-Dichlorophenylacetic acid	77	(37 - 116)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

TCLP Metals

Lot-Sample #...: A7K020232-001

Matrix.....: SO

Date Sampled...: 10/31/07 14:40 Date Received...: 11/01/07

Leach Date.....: 11/07/07 Leach Batch #...: P731107

PARAMETER	RESULT	REPORTING			METHOD	PREPARATION-	WORK
		LIMIT	UNITS			ANALYSIS DATE	ORDER #
Prep Batch #...: 7312026							
Arsenic	0.0040 B	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAE311AK	
		Dilution Factor: 1					
Barium	0.45 B	10.0	mg/L	SW846 6010B	11/08-11/09/07	KAE311AL	
		Dilution Factor: 1					
Cadmium	0.0073 B	0.10	mg/L	SW846 6010B	11/08-11/09/07	KAE311AM	
		Dilution Factor: 1					
Chromium	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAE311AN	
		Dilution Factor: 1					
Lead	0.16 B	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAE311AP	
		Dilution Factor: 1					
Selenium	ND	0.25	mg/L	SW846 6010B	11/08-11/09/07	KAE311AQ	
		Dilution Factor: 1					
Silver	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAE311AR	
		Dilution Factor: 1					
Mercury	ND	0.0020	mg/L	SW846 7470A	11/08/07	KAE311AT	
		Dilution Factor: 1					

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

B Estimated result. Result is less than RL.

Haley & Aldrich Inc.

Client Sample ID: SOILS COMPOSITE

General Chemistry

Lot-Sample #...: A7K020232-001 Work Order #...: KAE31 Matrix.....: SO
 Date Sampled...: 10/31/07 14:40 Date Received...: 11/01/07
 % Moisture.....: 26

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (solid)	8.0		No Units	SW846 9045C	11/08/07	7312546
						Dilution Factor: 1
Flashpoint	>180		deg F	SW846 1010	11/13/07	7317654
						Dilution Factor: 1
Paint Filter Test	NEG	0.10	%	SW846 9095A	11/08/07	7312442
						Dilution Factor: 1
Percent Solids	74.3	10.0	%	MCAWW 160.3 MOD	11/07-11/08/07	7311115
						Dilution Factor: 1
Reactive Cyanide	ND	200	mg/kg	SW846 7.3.3	11/07/07	7311392
						Dilution Factor: 1
Reactive Sulfide	ND	500	mg/kg	SW846 7.3.4	11/07/07	7311356
						Dilution Factor: 1
Total Phenols	5.5	1.3	mg/kg	SW846 9065	11/05/07	7309260
						Dilution Factor: 1

NOTE(S):

RL Reporting Limit
 NEG Negative
 Results and reporting limits have been adjusted for dry weight.

Haley & Aldrich Inc.

Client Sample ID: SORCE COMPOSITE

TCLP GC/MS Volatiles

Lot-Sample #...: A7K020232-002 Work Order #...: KAE451AA Matrix.....: SO
Date Sampled...: 10/31/07 14:50 Date Received..: 11/01/07
Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date..: 11/08/07
Leach Batch #..: P731105 Prep Batch #...: 7312544
Dilution Factor: 1
% Moisture.....: Method.....: SW846 8260B

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>
Benzene	1.1	0.025	mg/L

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	105	(86 - 125)
1,2-Dichloroethane-d4	107	(80 - 122)
Toluene-d8	104	(90 - 122)
4-Bromofluorobenzene	103	(84 - 125)

NOTE(S):

Analysis performed in accordance with USEPA Toxicity Characteristic Leaching Procedure Method 1311

QUALITY CONTROL SECTION

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A7K020232
MB Lot-Sample #: A7K080000-242

Work Order #...: KARKA1AA

Matrix.....: SOLID

Analysis Date...: 11/07/07
Dilution Factor: 1

Prep Date.....: 11/05/07

Prep Batch #...: 7312242

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	250	ug/kg	SW846 8260B
Ethylbenzene	ND	250	ug/kg	SW846 8260B
Toluene	ND	250	ug/kg	SW846 8260B
Xylenes (total)	29 J	500	ug/kg	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	80	(59 - 138)
1,2-Dichloroethane-d4	84	(61 - 130)
Toluene-d8	87	(60 - 143)
4-Bromofluorobenzene	84	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP GC/MS Volatiles

Client Lot #...: A7K020232 Work Order #...: KAN011AA Matrix.....: SOLID
 MB Lot-Sample #: A7K070000-355
 Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date..: 11/08/07
 Leach Batch #..: P731105 Prep Batch #...: 7312544
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Benzene	ND	0.025	mg/L	SW846 8260B
2-Butanone (MEK)	ND	0.25	mg/L	SW846 8260B
Carbon tetrachloride	ND	0.025	mg/L	SW846 8260B
Chlorobenzene	ND	0.025	mg/L	SW846 8260B
Chloroform	ND	0.025	mg/L	SW846 8260B
1,2-Dichloroethane	ND	0.025	mg/L	SW846 8260B
1,1-Dichloroethylene	ND	0.070	mg/L	SW846 8260B
Tetrachloroethylene	ND	0.070	mg/L	SW846 8260B
Trichloroethylene	ND	0.050	mg/L	SW846 8260B
Vinyl chloride	ND	0.025	mg/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	104	(86 - 125)
1,2-Dichloroethane-d4	106	(80 - 122)
Toluene-d8	100	(90 - 122)
4-Bromofluorobenzene	92	(84 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A7K020232
 MB Lot-Sample #: A7K050000-335

Work Order #...: KAJN31AA

Matrix.....: SOLID

Prep Date.....: 11/05/07

Analysis Date...: 11/12/07

Prep Batch #...: 7309335

Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	990	ug/kg	SW846 8270C
Acenaphthylene	ND	990	ug/kg	SW846 8270C
Anthracene	ND	990	ug/kg	SW846 8270C
Benzo(a)anthracene	ND	990	ug/kg	SW846 8270C
Benzo(a)pyrene	ND	990	ug/kg	SW846 8270C
Benzo(b)fluoranthene	ND	990	ug/kg	SW846 8270C
Benzo(ghi)perylene	ND	990	ug/kg	SW846 8270C
Benzo(k)fluoranthene	ND	990	ug/kg	SW846 8270C
Chrysene	ND	990	ug/kg	SW846 8270C
Dibenz(a,h)anthracene	ND	990	ug/kg	SW846 8270C
Fluoranthene	ND	990	ug/kg	SW846 8270C
Fluorene	ND	990	ug/kg	SW846 8270C
Indeno(1,2,3-cd)pyrene	ND	990	ug/kg	SW846 8270C
1-Methylnaphthalene	ND	990	ug/kg	SW846 8270C
2-Methylnaphthalene	ND	990	ug/kg	SW846 8270C
Naphthalene	ND	990	ug/kg	SW846 8270C
Phenanthrene	ND	990	ug/kg	SW846 8270C
Pyrene	ND	990	ug/kg	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	69	(24 - 112)
2-Fluorobiphenyl	74	(34 - 110)
Terphenyl-d14	97	(41 - 119)
Phenol-d5	68	(28 - 110)
2-Fluorophenol	71	(26 - 110)
2,4,6-Tribromophenol	51	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC/MS Semivolatiles

Client Lot #...: A7K020232
 MB Lot-Sample #: A7K080000-055
 Leach Date.....: 11/07/07
 Leach Batch #...: P731107
 Dilution Factor: 1

Work Order #...: KAQX31AA
 Prep Date.....: 11/08/07
 Prep Batch #...: 7312055

Matrix.....: SOLID
 Analysis Date...: 11/13/07

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
o-Cresol	ND	0.0040	mg/L	SW846 8270C
m-Cresol & p-Cresol	ND	0.040	mg/L	SW846 8270C
1,4-Dichlorobenzene	ND	0.0040	mg/L	SW846 8270C
2,4-Dinitrotoluene	ND	0.020	mg/L	SW846 8270C
Hexachlorobenzene	ND	0.020	mg/L	SW846 8270C
Hexachlorobutadiene	ND	0.020	mg/L	SW846 8270C
Hexachloroethane	ND	0.020	mg/L	SW846 8270C
Nitrobenzene	ND	0.0040	mg/L	SW846 8270C
Pentachlorophenol	ND	0.040	mg/L	SW846 8270C
Pyridine	ND	0.020	mg/L	SW846 8270C
2,4,5-Trichloro-phenol	ND	0.020	mg/L	SW846 8270C
2,4,6-Trichloro-phenol	ND	0.020	mg/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	74	(29 - 111)
2-Fluorobiphenyl	78	(22 - 110)
Terphenyl-d14	85	(40 - 119)
Phenol-d5	63	(10 - 110)
2-Fluorophenol	33	(10 - 110)
2,4,6-Tribromophenol	60	(17 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Semivolatiles

Client Lot #...: A7K020232
MB Lot-Sample #: A7K030000-027

Work Order #...: KAGLR1AA

Matrix.....: SOLID

Analysis Date...: 11/06/07
Dilution Factor: 1

Prep Date.....: 11/03/07

Prep Batch #...: 7307027

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Aroclor 1016	ND	33	ug/kg	SW846 8082
Aroclor 1221	ND	33	ug/kg	SW846 8082
Aroclor 1232	ND	33	ug/kg	SW846 8082
Aroclor 1242	ND	33	ug/kg	SW846 8082
Aroclor 1248	ND	33	ug/kg	SW846 8082
Aroclor 1254	ND	33	ug/kg	SW846 8082
Aroclor 1260	ND	33	ug/kg	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	77	(10 - 196)
Decachlorobiphenyl	63	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAQXQ1AA Matrix.....: SOLID
MB Lot-Sample #: A7K080000-045
Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date..: 11/09/07
Leach Batch #..: P731107 Prep Batch #...: 7312045
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		
		<u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Chlordane (technical)	ND	0.0050	mg/L	SW846 8081A
Endrin	ND	0.00050	mg/L	SW846 8081A
Heptachlor	ND	0.00050	mg/L	SW846 8081A
Heptachlor epoxide	ND	0.00050	mg/L	SW846 8081A
Lindane	ND	0.00050	mg/L	SW846 8081A
Methoxychlor	ND	0.0010	mg/L	SW846 8081A
Toxaphene	ND	0.020	mg/L	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Decachlorobiphenyl	115	(31 - 115)
Tetrachloro-m-xylene	83	(47 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP GC Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAQXP1AA Matrix.....: SOLID
MB Lot-Sample #: A7K080000-044
Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date..: 11/09/07
Leach Batch #..: P731107 Prep Batch #...: 7312044
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
2,4-D	ND	0.50	mg/L	SW846 8151A
2,4,5-TP (Silvex)	ND	0.10	mg/L	SW846 8151A
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
2,4-Dichlorophenylacetic acid	76	(37 - 116)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A7K020232

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
MB Lot-Sample #: A7K070000-360 Prep Batch #... : 7312026 Leach Date.....: 11/07/07 Leach Batch #..: P731107						
Arsenic	0.0043 B	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AN
		Dilution Factor: 1				
Barium	0.0011 B	10.0	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AP
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AQ
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AR
		Dilution Factor: 1				
Lead	0.0021 B	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AT
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AU
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAN1Q1AV
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	11/08/07	KAN1Q1AL
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

TCLP Metals

Client Lot #...: A7K020232

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	WORK
		LIMIT	UNITS		ANALYSIS DATE	ORDER #
MB Lot-Sample #: A7K080000-026 Prep Batch #...: 7312026						
Arsenic	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A0
		Dilution Factor: 1				
Barium	ND	10.0	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A1
		Dilution Factor: 1				
Cadmium	ND	0.10	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A2
		Dilution Factor: 1				
Chromium	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A3
		Dilution Factor: 1				
Lead	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A4
		Dilution Factor: 1				
Selenium	ND	0.25	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A5
		Dilution Factor: 1				
Silver	ND	0.50	mg/L	SW846 6010B	11/08-11/09/07	KAQW71A6
		Dilution Factor: 1				
Mercury	ND	0.0020	mg/L	SW846 7470A	11/08/07	KAQW71AL
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

General Chemistry

Client Lot #...: A7K020232

Matrix.....: SOLID

PARAMETER	RESULT	REPORTING		METHOD	PREPARATION-	PREP
		LIMIT	UNITS		ANALYSIS DATE	BATCH #
Percent Solids	ND	Work Order #: J036M1AA 10.0	%	MB Lot-Sample #: A7F150000-189 MCAWW 160.3 MOD	11/07-11/08/07	7311115
		Dilution Factor: 1				
Reactive Cyanide	ND	Work Order #: KAN881AA 200	mg/kg	MB Lot-Sample #: A7K070000-392 SW846 7.3.3	11/07/07	7311392
		Dilution Factor: 1				
Reactive Sulfide	130 B	Work Order #: KAN2M1AA 500	mg/kg	MB Lot-Sample #: A7K070000-356 SW846 7.3.4	11/07/07	7311356
		Dilution Factor: 1				
Total Phenols	ND	Work Order #: KAKDP1AA 1.0	mg/kg	MB Lot-Sample #: A7K050000-260 SW846 9065	11/05/07	7309260
		Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7K020232 Work Order #...: KARKA1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A7K080000-242 KARKA1AD-LCSD
 Prep Date.....: 11/05/07 Analysis Date...: 11/07/07
 Prep Batch #...: 7312242
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	87	(75 - 129)			SW846 8260B
	87	(75 - 129)	0.30	(0-20)	SW846 8260B
1,1-Dichloroethene	79	(55 - 142)			SW846 8260B
	77	(55 - 142)	1.5	(0-27)	SW846 8260B
Toluene	102	(71 - 130)			SW846 8260B
	99	(71 - 130)	3.0	(0-24)	SW846 8260B
Trichloroethene	92	(70 - 131)			SW846 8260B
	92	(70 - 131)	0.0	(0-23)	SW846 8260B
Chlorobenzene	109	(75 - 127)			SW846 8260B
	105	(75 - 127)	3.3	(0-22)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(59 - 138)
	94	(59 - 138)
1,2-Dichloroethane-d4	94	(61 - 130)
	91	(61 - 130)
Toluene-d8	98	(60 - 143)
	105	(60 - 143)
4-Bromofluorobenzene	88	(47 - 158)
	85	(47 - 158)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A7K020232 Work Order #...: KAT3N1AA Matrix.....: WASTE
 LCS Lot-Sample#: A7K080000-544
 Prep Date.....: 11/08/07 Analysis Date...: 11/08/07
 Prep Batch #...: 7312544
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Benzene	105	(76 - 118)	SW846 8260B
Chlorobenzene	109	(76 - 113)	SW846 8260B
1,1-Dichloroethylene	114	(67 - 128)	SW846 8260B
Trichloroethylene	108	(76 - 119)	SW846 8260B
Toluene	114	(72 - 117)	SW846 8260B

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Dibromofluoromethane	110	(86 - 124)
1,2-Dichloroethane-d4	110	(80 - 122)
Toluene-d8	107	(90 - 122)
4-Bromofluorobenzene	107	(84 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAJN31AC Matrix.....: SOLID
 LCS Lot-Sample#: A7K050000-335
 Prep Date.....: 11/05/07 Analysis Date..: 11/12/07
 Prep Batch #...: 7309335
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Acenaphthene	72	(46 - 110)	SW846 8270C
1,2,4-Trichloro- benzene	74	(43 - 110)	SW846 8270C
2,4-Dinitrotoluene	82	(55 - 116)	SW846 8270C
N-Nitrosodi-n-propyl- amine	75	(40 - 114)	SW846 8270C
1,4-Dichlorobenzene	70	(38 - 110)	SW846 8270C
Pentachlorophenol	58	(10 - 110)	SW846 8270C
Phenol	73	(39 - 110)	SW846 8270C
2-Chlorophenol	72	(39 - 110)	SW846 8270C
4-Chloro-3-methylphenol	71	(42 - 110)	SW846 8270C
4-Nitrophenol	67	(24 - 117)	SW846 8270C
Pyrene	86	(58 - 113)	SW846 8270C

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Nitrobenzene-d5	72	(24 - 112)
2-Fluorobiphenyl	72	(34 - 110)
Terphenyl-d14	92	(41 - 119)
Phenol-d5	72	(28 - 110)
2-Fluorophenol	70	(26 - 110)
2,4,6-Tribromophenol	68	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAQX31AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A7K080000-055 KAQX31AD-LCSD
 Prep Date.....: 11/08/07 Analysis Date...: 11/13/07
 Prep Batch #...: 7312055
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	RPD	<u>LIMITS</u>	
o-Cresol	63	(24 - 110)			SW846 8270C
	64	(24 - 110)	0.78	(0-30)	SW846 8270C
m-Cresol & p-Cresol	74	(27 - 110)			SW846 8270C
	75	(27 - 110)	1.1	(0-30)	SW846 8270C
1,4-Dichlorobenzene	58	(16 - 110)			SW846 8270C
	60	(16 - 110)	4.1	(0-30)	SW846 8270C
2,4-Dinitrotoluene	89	(45 - 126)			SW846 8270C
	90	(45 - 126)	0.68	(0-30)	SW846 8270C
Hexachlorobenzene	82	(47 - 116)			SW846 8270C
	88	(47 - 116)	7.6	(0-30)	SW846 8270C
Hexachlorobutadiene	57	(10 - 110)			SW846 8270C
	62	(10 - 110)	9.0	(0-30)	SW846 8270C
Hexachloroethane	52	(10 - 110)			SW846 8270C
	50	(10 - 110)	3.8	(0-30)	SW846 8270C
Nitrobenzene	80	(35 - 117)			SW846 8270C
	84	(35 - 117)	5.1	(0-30)	SW846 8270C
Pentachlorophenol	51	(12 - 110)			SW846 8270C
	17 p	(12 - 110)	100	(0-30)	SW846 8270C
Pyridine	58	(10 - 110)			SW846 8270C
	63	(10 - 110)	7.3	(0-30)	SW846 8270C
2,4,5-Trichloro-phenol	73	(35 - 111)			SW846 8270C
	77	(35 - 111)	4.8	(0-30)	SW846 8270C
2,4,6-Trichloro-phenol	79	(32 - 110)			SW846 8270C
	81	(32 - 110)	2.0	(0-30)	SW846 8270C
Cresols (total)	70	(27 - 110)			SW846 8270C
	71	(27 - 110)	1.0	(0-30)	SW846 8270C

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Nitrobenzene-d5	81	(29 - 111)
	79	(29 - 111)
2-Fluorobiphenyl	79	(22 - 110)
	78	(22 - 110)
Terphenyl-d14	84	(40 - 119)
	84	(40 - 119)
Phenol-d5	66	(10 - 110)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAQX31AC-LCS Matrix.....: SOLID
LCS Lot-Sample#: A7K080000-055 KAQX31AD-LCSD

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
	68	(10 - 110)
2-Fluorophenol	37	(10 - 110)
	36	(10 - 110)
2,4,6-Tribromophenol	76	(17 - 117)
	75	(17 - 117)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

p Relative percent difference (RPD) is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAGLR1AC Matrix.....: SOLID
 LCS Lot-Sample#: A7K030000-027
 Prep Date.....: 11/03/07 Analysis Date...: 11/07/07
 Prep Batch #...: 7307027
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	<u>METHOD</u>
Aroclor 1016	95	(34 - 127)	SW846 8082
Aroclor 1260	93	(32 - 141)	SW846 8082

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
Tetrachloro-m-xylene	98	(10 - 196)
Decachlorobiphenyl	90	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAQXQ1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A7K080000-045 KAQXQ1AD-LCSD
 Prep Date.....: 11/08/07 Analysis Date...: 11/09/07
 Prep Batch #...: 7312045
 Dilution Factor: 5

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Endrin	91	(50 - 110)			SW846 8081A
	101	(50 - 110)	9.7	(0-93)	SW846 8081A
Heptachlor	91	(57 - 110)			SW846 8081A
	103	(57 - 110)	13	(0-88)	SW846 8081A
Heptachlor epoxide	85	(56 - 110)			SW846 8081A
	92	(56 - 110)	8.3	(0-86)	SW846 8081A
Lindane	91	(56 - 110)			SW846 8081A
	99	(56 - 110)	9.0	(0-88)	SW846 8081A
Methoxychlor	93	(41 - 126)			SW846 8081A
	114	(41 - 126)	20	(0-94)	SW846 8081A

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Decachlorobiphenyl	109	(31 - 115)
	116 *	(31 - 115)
Tetrachloro-m-xylene	84	(47 - 110)
	92	(47 - 110)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

* Surrogate recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAQXP1AC-LCS Matrix.....: SOLID
 LCS Lot-Sample#: A7K080000-044 KAQXP1AD-LCSD
 Prep Date.....: 11/08/07 Analysis Date...: 11/09/07
 Prep Batch #...: 7312044
 Dilution Factor: 1

<u>PARAMETER</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>	RPD	RPD <u>LIMITS</u>	<u>METHOD</u>
2,4-D	90	(35 - 136)			SW846 8151A
	85	(35 - 136)	5.3	(0-50)	SW846 8151A
2,4,5-TP (Silvex)	89	(46 - 112)			SW846 8151A
	85	(46 - 112)	3.7	(0-63)	SW846 8151A

<u>SURROGATE</u>	PERCENT <u>RECOVERY</u>	RECOVERY <u>LIMITS</u>
2,4-Dichlorophenylacetic acid	85	(37 - 116)
	83	(37 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7K020232

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
LCS Lot-Sample#: A7K080000-026 Prep Batch #... : 7312026					
Arsenic	110	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71A7
		Dilution Factor: 1			
Barium	109	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71A8
		Dilution Factor: 1			
Cadmium	108	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71A9
		Dilution Factor: 1			
Chromium	109	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71CA
		Dilution Factor: 1			
Lead	106	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71CC
		Dilution Factor: 1			
Selenium	114	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71CD
		Dilution Factor: 1			
Silver	121	(50 - 150)	SW846 6010B	11/08-11/09/07	KAQW71CE
		Dilution Factor: 1			
Mercury	105	(50 - 150)	SW846 7470A	11/08/07	KAQW71AX
		Dilution Factor: 1			

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7K020232

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
pH (solid)	99	(97 - 103)	Work Order #: KAT4H1AA SW846 9045C Dilution Factor: 1	LCS Lot-Sample#: A7K080000-546 11/08/07	7312546
Reactive Cyanide	88	(10 - 200)	Work Order #: KAN881AC SW846 7.3.3 Dilution Factor: 1	LCS Lot-Sample#: A7K070000-392 11/07/07	7311392
Reactive Sulfide	164	(10 - 200)	Work Order #: KAN2M1AC SW846 7.3.4 Dilution Factor: 1	LCS Lot-Sample#: A7K070000-356 11/07/07	7311356
Total Phenols	73	(54 - 142)	Work Order #: KAKDP1AC SW846 9065 Dilution Factor: 1	LCS Lot-Sample#: A7K050000-260 11/05/07	7309260

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP GC/MS Volatiles

Client Lot #...: A7K020232 Work Order #...: KAEV81CA-MS Matrix.....: WASTE
 MS Lot-Sample #: A7K020209-001 KAEV81CC-MSD
 Date Sampled...: 11/02/07 10:25 Date Received...: 11/02/07
 Leach Date.....: 11/07/07 Prep Date.....: 11/08/07 Analysis Date...: 11/08/07
 Leach Batch #...: P731105 Prep Batch #...: 7312544
 Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	107	(76 - 117)			SW846 8260B
	106	(76 - 117)	1.1	(0-30)	SW846 8260B
Chlorobenzene	105	(72 - 114)			SW846 8260B
	107	(72 - 114)	1.5	(0-30)	SW846 8260B
1,1-Dichloroethylene	110	(67 - 129)			SW846 8260B
	109	(67 - 129)	0.56	(0-30)	SW846 8260B
Trichloroethylene	110	(72 - 121)			SW846 8260B
	108	(72 - 121)	0.97	(0-30)	SW846 8260B
Toluene	110	(67 - 113)			SW846 8260B
	111	(67 - 113)	0.42	(0-30)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	111	(86 - 125)
	110	(86 - 125)
1,2-Dichloroethane-d4	107	(80 - 122)
	103	(80 - 122)
Toluene-d8	107	(90 - 122)
	107	(90 - 122)
4-Bromofluorobenzene	106	(84 - 125)
	109	(84 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAFXX1AU-MS Matrix.....: SOLID
 MS Lot-Sample #: A7K020328-001 KAFXX1AV-MSD
 Date Sampled...: 11/01/07 Date Received...: 11/02/07
 Prep Date.....: 11/05/07 Analysis Date...: 11/12/07
 Prep Batch #...: 7309335
 Dilution Factor: 1 % Moisture.....: 4.5

PARAMETER	PERCENT	RECOVERY	RPD		METHOD
	RECOVERY	LIMITS	RPD	LIMITS	
Acenaphthene	69	(10 - 200)			SW846 8270C
	67	(10 - 200)	1.8	(0-30)	SW846 8270C
1,2,4-Trichloro- benzene	67	(33 - 110)			SW846 8270C
	70	(33 - 110)	5.3	(0-30)	SW846 8270C
2,4-Dinitrotoluene	77	(42 - 118)			SW846 8270C
	70	(42 - 118)	9.4	(0-30)	SW846 8270C
N-Nitrosodi-n-propyl- amine	68	(30 - 121)			SW846 8270C
	77	(30 - 121)	12	(0-30)	SW846 8270C
1,4-Dichlorobenzene	63	(26 - 110)			SW846 8270C
	62	(26 - 110)	0.56	(0-30)	SW846 8270C
Pentachlorophenol	15	(10 - 182)			SW846 8270C
	8.3 a,p	(10 - 182)	57	(0-30)	SW846 8270C
Phenol	61	(10 - 144)			SW846 8270C
	32 p	(10 - 144)	61	(0-30)	SW846 8270C
2-Chlorophenol	48	(32 - 110)			SW846 8270C
	6.6 a,p	(32 - 110)	152	(0-30)	SW846 8270C
4-Chloro-3-methylphenol	59	(32 - 117)			SW846 8270C
	20 a,p	(32 - 117)	100	(0-30)	SW846 8270C
4-Nitrophenol	20	(10 - 125)			SW846 8270C
	0.0 a,p	(10 - 125)	200	(0-30)	SW846 8270C
Pyrene	83	(10 - 200)			SW846 8270C
	84	(10 - 200)	1.4	(0-30)	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	66	(24 - 112)
	72	(24 - 112)
2-Fluorobiphenyl	69	(34 - 110)
	69	(34 - 110)
Terphenyl-d14	88	(41 - 119)
	86	(41 - 119)
Phenol-d5	56	(28 - 110)
	28	(28 - 110)
2-Fluorophenol	42	(26 - 110)
	0.0 *	(26 - 110)

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MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KAFXX1AU-MS Matrix.....: SOLID
MS Lot-Sample #: A7K020328-001 KAFXX1AV-MSD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
2,4,6-Tribromophenol	18	(10 - 118)
	1.2 *	(10 - 118)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

* Surrogate recovery is outside stated control limits.

a Spiked analyte recovery is outside stated control limits.

p Relative percent difference (RPD) is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #...: A7K020232 Work Order #...: KADR11AF-MS Matrix.....: SOLID
 MS Lot-Sample #: A7K020102-010 KADR11AG-MSD
 Date Sampled...: 10/29/07 15:45 Date Received...: 10/31/07
 Prep Date.....: 11/03/07 Analysis Date...: 11/06/07
 Prep Batch #...: 7307027
 Dilution Factor: 1 % Moisture.....: 18

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Aroclor 1016	80	(10 - 199)			SW846 8082
	78	(10 - 199)	3.5	(0-30)	SW846 8082
Aroclor 1260	65	(10 - 199)			SW846 8082
	61	(10 - 199)	6.2	(0-30)	SW846 8082

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Tetrachloro-m-xylene	87	(10 - 196)
	80	(10 - 196)
Decachlorobiphenyl	100	(10 - 199)
	110	(10 - 199)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters
 Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

TCLP Metals

Client Lot #...: A7K020232
 Date Sampled...: 11/01/07

Date Received...: 11/02/07

Matrix.....: SOLID

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>WORK ORDER #</u>
MS Lot-Sample #: A7K020328-001 Prep Batch #...: 7312026							
Leach Date.....: 11/07/07 Leach Batch #...: P731107							
Arsenic	105	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1CL
	106	(50 - 150)	1.0	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1CM
			Dilution Factor: 5				
Barium	103	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1CP
	104	(50 - 150)	0.73	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1CQ
			Dilution Factor: 5				
Cadmium	105	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1CT
	107	(50 - 150)	1.8	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1CU
			Dilution Factor: 5				
Chromium	103	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1CW
	104	(50 - 150)	0.72	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1CX
			Dilution Factor: 5				
Lead	104	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1C1
	104	(50 - 150)	0.87	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1C2
			Dilution Factor: 5				
Selenium	104	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1C4
	104	(50 - 150)	0.09	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1C5
			Dilution Factor: 5				
Silver	106	(50 - 150)			SW846 6010B	11/08-11/09/07	KAFXX1C7
	107	(50 - 150)	1.4	(0-20)	SW846 6010B	11/08-11/09/07	KAFXX1C8
			Dilution Factor: 5				
Mercury	105	(50 - 150)			SW846 7470A	11/08/07	KAFXX1CH
	105	(50 - 150)	0.09	(0-20)	SW846 7470A	11/08/07	KAFXX1CJ
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7K020232

Matrix.....: SOLID

Date Sampled...: 10/25/07 10:30 Date Received...: 10/31/07

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Total Phenols							
	84	(75 - 125)			SW846 9065	11/05/07	7309259
	102	(75 - 125)	12	(0-20)	SW846 9065	11/05/07	7309259
			Dilution Factor: 1				

% Moisture.....: 75

WO#: J99AR1AW-MS/J99AR1AX-MSD MS Lot-Sample #: A7J310307-001

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: A7K020232

Matrix.....: WATER

Date Sampled...: 11/01/07 15:00 Date Received...: 11/02/07

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Reactive Cyanide			WO#: KAELG1CJ-MS/KAELG1CK-MSD		MS Lot-Sample #: A7K020161-002		
	25	(10 - 200)			SW846 7.3.3	11/07/07	7311392
	50	(10 - 200)	50	(0-100)	SW846 7.3.3	11/07/07	7311392
			Dilution Factor: 1				
Reactive Sulfide			WO#: KAELG1CG-MS/KAELG1CH-MSD		MS Lot-Sample #: A7K020161-002		
	109	(10 - 200)			SW846 7.3.4	11/07/07	7311356
	117	(10 - 200)	6.5	(0-100)	SW846 7.3.4	11/07/07	7311356
			Dilution Factor: 1				

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7K020232

Work Order #...: J946F-SMP
J946F-DUP

Matrix.....: SOLID

Date Sampled...: 10/18/07 09:00 Date Received...: 10/30/07

% Moisture.....: 4.6

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>			<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Flashpoint						SD Lot-Sample #: A7J300137-003		
	>180	>180	deg F	0.0	(0-20)	SW846 1010	11/13/07	7317654
			Dilution Factor: 1					

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: A7K020232

Work Order #...: KAFFQ-SMP
KAFFQ-DUP

Matrix.....: WASTE

Date Sampled...: 11/01/07 11:54 Date Received...: 11/02/07

<u>PARAM</u>	<u>RESULT</u>	<u>DUPLICATE</u>	<u>UNITS</u>	<u>RPD</u>	<u>RPD</u>	<u>METHOD</u>	<u>PREPARATION-</u>	<u>PREP</u>
		<u>RESULT</u>		<u>RPD</u>	<u>LIMIT</u>		<u>ANALYSIS DATE</u>	<u>BATCH #</u>
Flashpoint	>180	>180	deg F	0.0	(0-20)	SD Lot-Sample #: A7K020272-005 SW846 1010	11/13/07	7317654
			Dilution Factor: 1					

Chain of Custody Record

TAL-4142 (0907)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client: **Halcyon Aldrich**

Project Manager: **David Demas**

Date: **10-31-07**

Chain of Custody Number: **387017**

Address: **12720 N. Meridian St # 165**

Telephone Number (Area Code)/Fax Number: **317-44569-0436**

Lab Number

Page **1** of **1**

City: **Carmel** State: **IN** Zip Code: **46032**

Site Contact: **G. Mowatt** Lab Contact: **D. Roll**

Project Name and Location (State): **OPland Remedial Action**

Carrier/Waybill Number

Fed Ex

Contract/Purchase Order/Quote No: **12758-020**

Sample I.D. No. and Description (Containers for each sample may be combined on one line)

Matrix

Containers & Preservatives

Analysis (Attach list if more space is needed)

Special Instructions/Conditions of Receipt

Soils Composite

Date: **10-31-07** Time: **19:40**

Soil: **FR** Unpres.: **1**

See attached list for TCLP Benzene

Free Product (TAR)

Soce Composite

Date: **10-31-08** Time: **18:50**

Soil: **X** Unpres.: **X**

See attached list (D. Roll)

Free Product (TAR)

Sample I.D. No. and Description	Date	Time	Air	Aqueous	Sed.	Soil	FR	Unpres.	H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Containers & Preservatives	Analysis (Attach list if more space is needed)	Special Instructions/Conditions of Receipt
Soils Composite	10-31-07	19:40				X	FR	1								See attached list for TCLP Benzene
Soce Composite	10-31-08	18:50				X		X								See attached list (D. Roll)

Possible Hazard Identification

Non-Hazard
 Flammable
 Skin Irritant
 Poison B
 Unknown
 Return To Client
 Disposal By Lab
 Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Turn Around Time Required

24 Hours
 48 Hours
 7 Days
 14 Days
 21 Days
 Other: **Standard**

1. Relinquished By: **Mrs A Mowatt** Date: **10-31-07** Time: _____

2. Relinquished By: _____ Date: _____ Time: _____

3. Relinquished By: _____ Date: _____ Time: _____

1. Received By: **Stacy Burns** Date: **11/1/07** Time: **9:45**

2. Received By: _____ Date: _____ Time: _____

3. Received By: _____ Date: _____ Time: _____

Comment: **Please E-Mail results to Gmowatt@HalcyonAldrich.com**

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

TestAmerica Cooler Receipt Form/Narrative

Lot Number: ATY-070232

North Canton Facility

Client Haley + Aldrich Project _____ Quote # _____
 Cooler Received on 11/1/07 Opened on 11/1/07 By [Signature]
 FedEx Client Drop Off UPS DHL FAS TestAmerica Courier
 Stetson US Cargo Other _____ (Signature)

- TestAmerica Cooler # 241-235 Foam Box Client Cooler Other _____
- Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity 1
 Were custody seals on the outside of cooler signed and dated? Yes No NA
 Were custody seals on the bottles? Yes No
 - Shipper's packing slip attached to this form? Yes No
 - Did custody papers accompany the sample(s)? Yes No Relinquished by client? Yes No
 - Did you sign the custody papers in the appropriate place? Yes No
 - Packing material used: Bubble Wrap Foam None Other _____
 - Cooler temperature upon receipt 1.3 °C (see back of form for multiple coolers/temps)
 METHOD: IR Other
 - COOLANT: Wet Ice Blue Ice Dry Ice Water None
 - Did all bottles arrive in good condition (Unbroken)? Yes No
 - Could all bottle labels and/or tags be reconciled with the COC? Yes No
 - Were samples at the correct pH upon receipt? Yes No NA
 - Were correct bottles used for the tests indicated? Yes No
 - Were air bubbles >6 mm in any VOA vials? Yes No NA
 - Sufficient quantity received to perform indicated analyses? Yes No
 - Was a Trip Blank present in the cooler? Yes No Were VOAs on the COC? Yes No
- Contacted PM _____ Date _____ by _____ via Voice Mail Verbal Other
 Concerning _____

14. CHAIN OF CUSTODY

The following discrepancies occurred:

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

16. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #071707-HNO3 - Sulfuric Acid Lot # 092006-H2SO4; Sodium Hydroxide Lot # 122805 -NaOH; Hydrochloric Acid Lot # 092006-HCl; Sodium Hydroxide and Zinc Acetate Lot # 050205-CH3COO2ZN/NaOH
 What time was preservative added to sample(s)? _____

Sample(s) _____ were received with bubble > 6 mm in diameter (Notify PM)

Client ID	pH	Date	Initials

END OF REPORT

APPENDIX H

IDEM 30-Day Waiver of Closure Notification



INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

We Protect Hoosiers and Our Environment.

Mitchell E. Daniels, Jr.
Governor

Thomas W. Easterly
Commissioner

100 North Senate Avenue
Indianapolis, Indiana 46204
(317) 232-8603
Toll Free (800) 451-6027
www.idem.IN.gov

COPY

November 5, 2008

NIPSCO
801 E. 86th St.
Merrillville, IN 46410

Re: 30-Day Waiver of Closure Notification (without suspected release)
Facility ID: 25046
NIPSCO
4912 .S. Hohman
Hammond, IN
Lake County

To Whom It May Concern:

On October 16, 2008, the Indiana Department of Environmental Management (IDEM), Underground Storage Tank (UST) Section, received your notice indicating your intent to permanently close an underground storage tank system located at the above address.

We have granted a waiver of the 30-day notification required before performing a tank closure. Ninety (90) days after receipt of this letter, the approval will expire and you will be required to resubmit the 30-day closure notification. In addition, you must notify the Office of the State Fire Marshal (OSFM) (317/232-2222), the primary local fire department and the UST Program (Nawal Hopkins 317/308-3386) of the date the UST(s) will be removed.

The closure must be completed in accordance with the UST rule 329 IAC 9-6 and with the requirements of the Indiana State Fire Prevention Code (Article 79. 675 IAC 22). This letter must be kept on location during the entire tank closure process. This will ensure that fire department officials recognize that you have fulfilled the IDEM closure notification requirements.

The rule changes for 329 IAC 9 are now in effect. Please review the IDEM Fact Sheet "Underground Storage Tank System Closure Site Assessment Guidelines" for specific information regarding these changes as they apply to UST closures. Significant changes have been made to the sampling protocols as well as sampling methods. If a method other than those listed is to be used, submit a written request for a variance to the Chemistry Section of the Indiana Department of Environmental Management Technical Support Branch (see address below). The Chemistry Section will reply with a written approval of the variance.

Indiana Department of Environmental Management
Office of Land Quality
Tech Support/Chemistry Section
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

The Removal closure must be completed in accordance with the UST rule 329 IAC 9-6 and with the requirements of the Indiana State Fire Prevention Code (Article 79. 675 IAC 22). This letter must be kept on location during the entire tank closure process. This will ensure that fire department officials recognize that you have fulfilled the IDEM closure notification requirements.

Please be aware that rule 329 IAC 9-6-2.5(f)(2) requires that a ground water sample be collected within any area where a suspected contaminant release has occurred, or where a chemical of concern has been substantiated by visual staining, field screening (PID, field GC, etc.), odors or laboratory analytical results. IDEM'S new sampling analyses guidance now requires that groundwater must be sampled for TPH. See the Closure Guidance Fact Sheet at http://www.in.gov/idem/programs/land/ust/ust_closure_asmt-fct_sht.html.

If at any time during the closure process a release is suspected or confirmed, the owner or operator must report the release to IDEM's Leaking Underground Storage Tank Section within 24 hours at 317/232-8900.

To assist you in completing the permanent closure, Rule 329 IAC 9-6 is enclosed. Please follow this rule to ensure that all UST site closure requirements of IDEM have been fulfilled. Within thirty (30) days after the closure, fill out a new notification form with the box "Permanent Closure with Closure Report" checked and send it with the site assessment report to:

Indiana Department of Environmental Management
Compliance and Response Branch
Underground Storage Tank Section
100 North Senate Avenue
P.O. Box 6015
Indianapolis, Indiana 46206-6015

If you have any questions please contact me at 317/308-3101.

Sincerely,



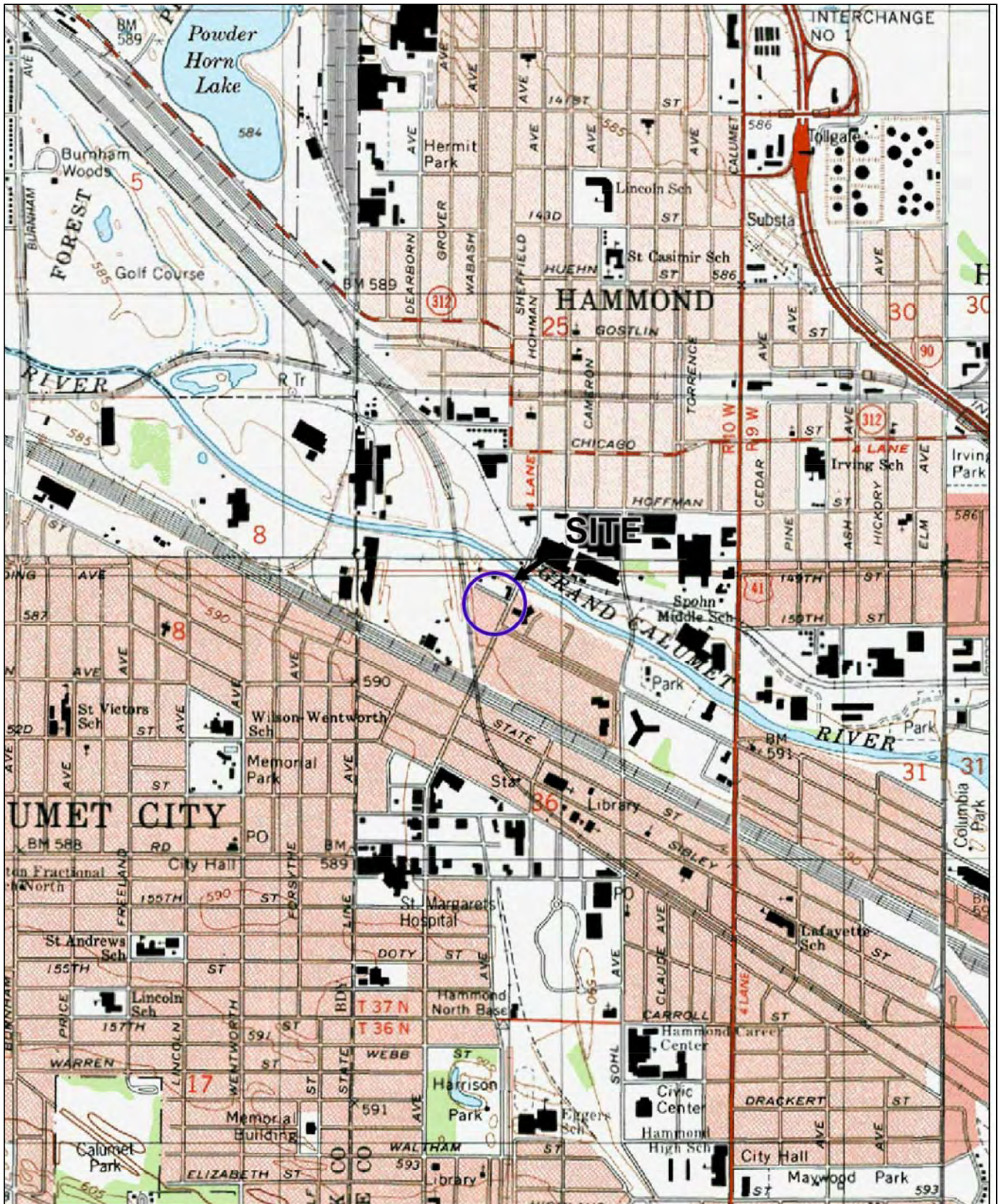
Shannon Debaun
Underground Storage Tank Program
Compliance and Response Branch
Office of Land Quality

SD/sgb

Enclosures

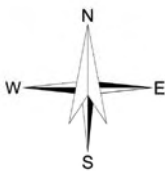
cc: UST Division - Office of the Indiana State Fire Marshal
✓ R.W. Collins
Bob Strimbu - NWRO

FIGURES



G:\12758-HAMMOND\GLOBAL\CAD\DRAWINGS_COMPLETION\REPORT\12758-070-001A_LOCUS.DWG

SITE COORDINATES: 41°37'25"N 87°31'9"W



U.S.G.S. QUADRANGLE: CALUMET CITY, IN



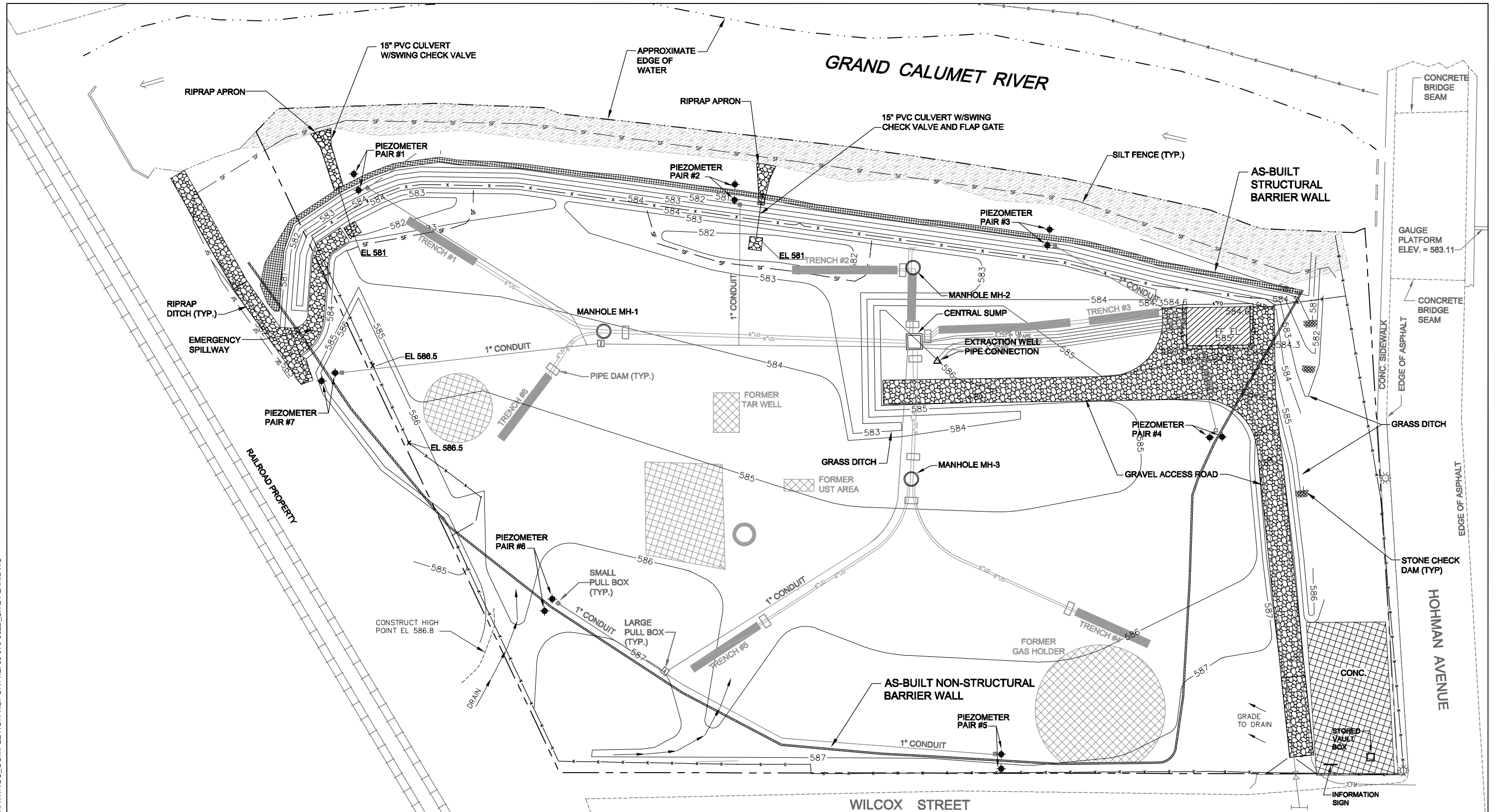
CONSTRUCTION COMPLETION REPORT
FORMER MGP SITE
HAMMOND, INDIANA

PROJECT LOCUS

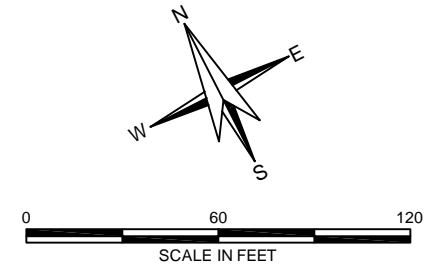
AS SHOWN
MAY 2009

FIGURE 1

G:\112758-HAMMOND\GLOBAL\CAD\DRAWINGS_COMPLETION\REPORT\112758-070-002B_SITE PLAN.DWG



- LEGEND:**
- RAILROAD TRACKS
 - PROPERTY BOUNDARY
 - CHAIN LINK FENCE
 - SILT FENCE
 - APPROXIMATE EDGE OF RIVER
 - 580 GROUND SURFACE TOPOGRAPHY (DESIGN GRADE SHOWN, ACTUAL GRADE ±0.5 FT.)
 - AS-BUILT LOCATION OF STRUCTURAL BARRIER WALL
 - AS-BUILT LOCATION OF NON-STRUCTURAL BARRIER WALL
 - APPROXIMATE LOCATION OF VIBRATING WIRE PIEZOMETER
 - REMAINING SUBSURFACE STRUCTURE
- NOTES:**
1. PLAN MODIFIED FROM SEVEE & MAHER'S REVISED GRADING PLAN, (REVISION DATE 10/30/08).
 2. ELEVATIONS REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM, 1929 (NGVD 29).



HALEY & ALDRICH
Design & Construction

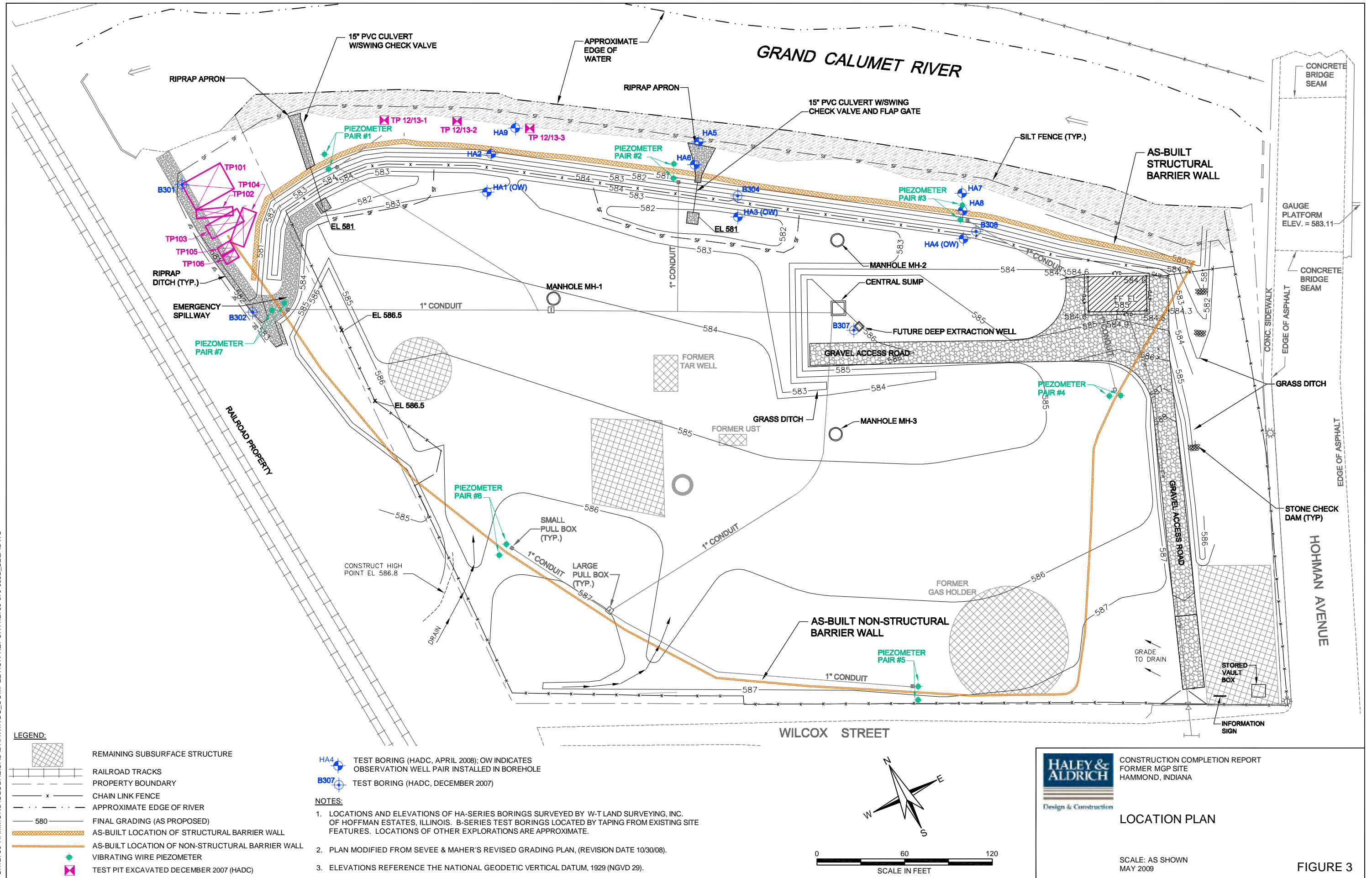
CONSTRUCTION COMPLETION REPORT
FORMER MGP SITE
HAMMOND, INDIANA

SITE PLAN

SCALE: AS SHOWN
MAY 2009

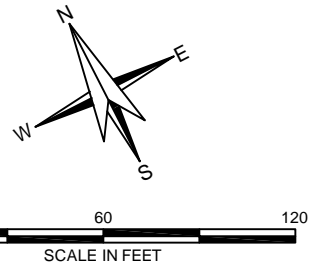
FIGURE 2

G:\112758-HAMMOND\GLOBAL\CAD\DRAWINGS_COMPLETION\REPORT\112758-070-003B_SELP.DWG



- LEGEND:**
- REMAINING SUBSURFACE STRUCTURE
 - RAILROAD TRACKS
 - PROPERTY BOUNDARY
 - CHAIN LINK FENCE
 - APPROXIMATE EDGE OF RIVER
 - FINAL GRADING (AS PROPOSED)
 - AS-BUILT LOCATION OF STRUCTURAL BARRIER WALL
 - AS-BUILT LOCATION OF NON-STRUCTURAL BARRIER WALL
 - VIBRATING WIRE PIEZOMETER
 - TEST PIT EXCAVATED DECEMBER 2007 (HADC)

- HA4 TEST BORING (HADC, APRIL 2008); OW INDICATES OBSERVATION WELL PAIR INSTALLED IN BOREHOLE
 - B307 TEST BORING (HADC, DECEMBER 2007)
- NOTES:**
1. LOCATIONS AND ELEVATIONS OF HA-SERIES BORINGS SURVEYED BY W-T LAND SURVEYING, INC. OF HOFFMAN ESTATES, ILLINOIS. B-SERIES TEST BORINGS LOCATED BY TAPING FROM EXISTING SITE FEATURES. LOCATIONS OF OTHER EXPLORATIONS ARE APPROXIMATE.
 2. PLAN MODIFIED FROM SEVEE & MAHER'S REVISED GRADING PLAN, (REVISION DATE 10/30/08).
 3. ELEVATIONS REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM, 1929 (NGVD 29).



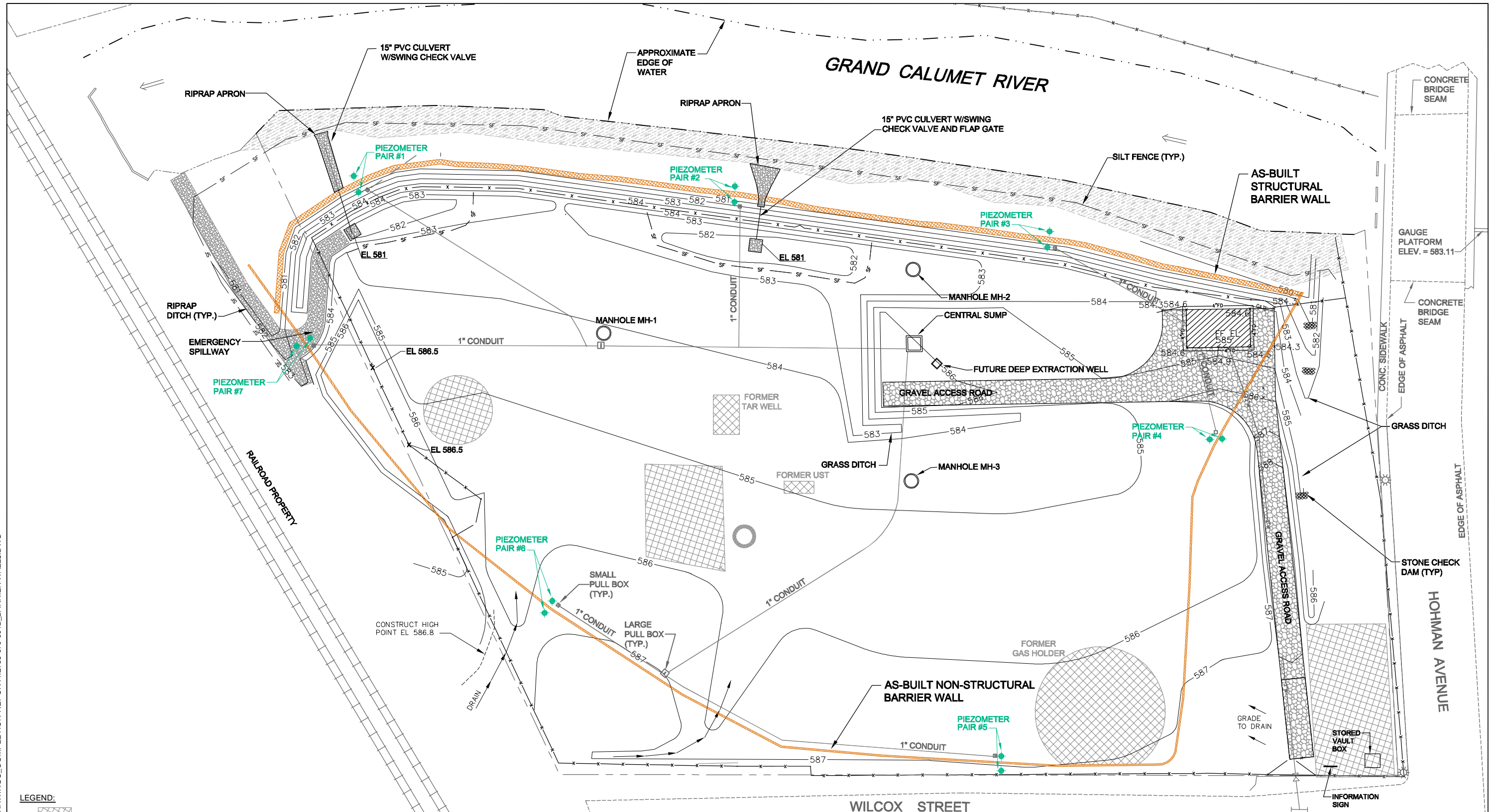
Design & Construction

CONSTRUCTION COMPLETION REPORT
FORMER MGP SITE
HAMMOND, INDIANA

LOCATION PLAN

SCALE: AS SHOWN
MAY 2009

FIGURE 3



- LEGEND:**
- REMAINING SUBSURFACE STRUCTURE
 - RAILROAD TRACKS
 - PROPERTY BOUNDARY
 - CHAIN LINK FENCE
 - APPROXIMATE EDGE OF RIVER
 - FINAL GRADING (AS PROPOSED)
 - AS-BUILT LOCATION OF STRUCTURAL BARRIER WALL
 - AS-BUILT LOCATION OF NON-STRUCTURAL BARRIER WALL
 - VIBRATING WIRE PIEZOMETER

- NOTES:**
1. PLAN MODIFIED FROM SEVEE & MAHER'S REVISED GRADING PLAN, (REVISION DATE 10/30/08).
 2. ELEVATIONS REFERENCE THE NATIONAL GEODETIC VERTICAL DATUM, 1929 (NGVD 29).

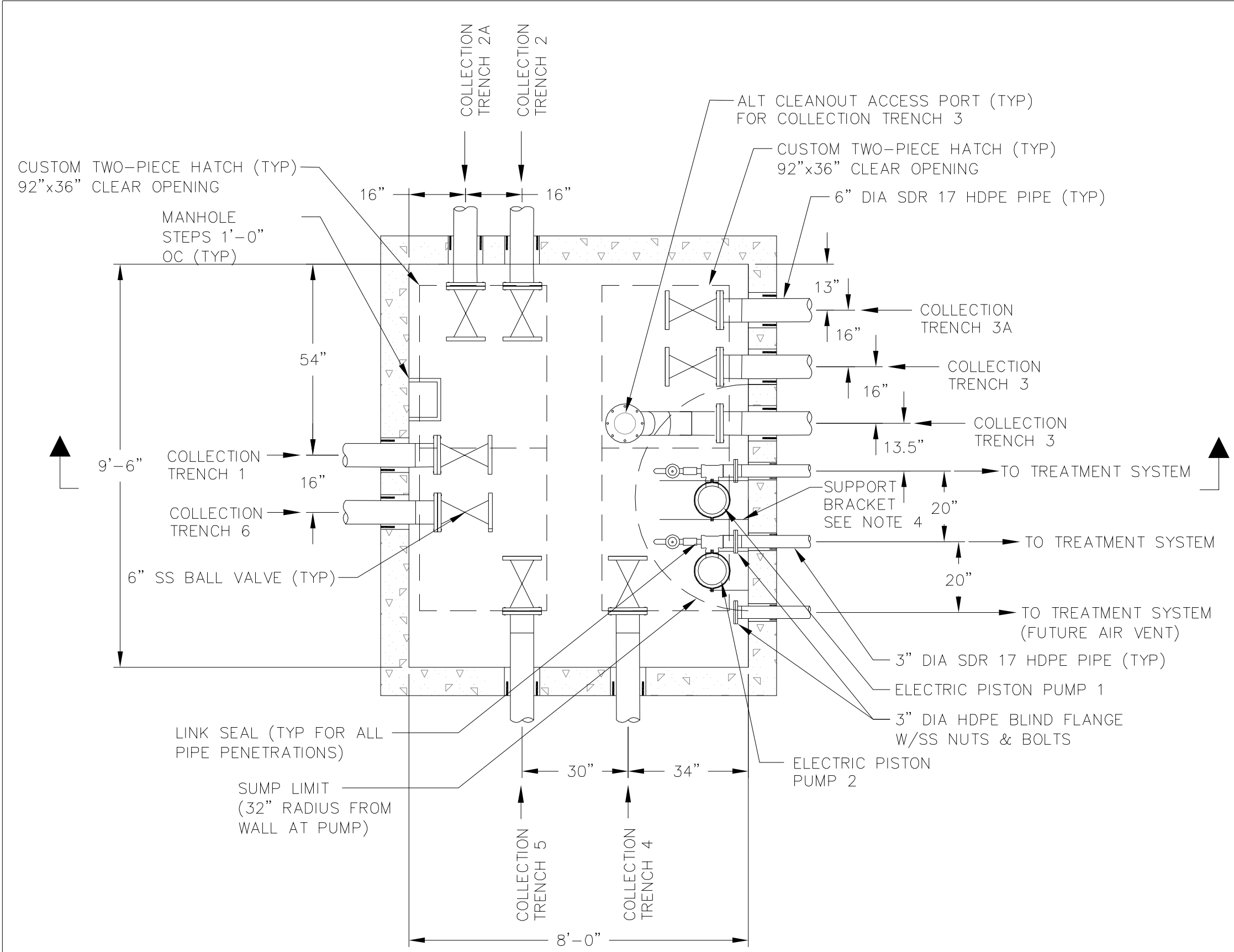
HALEY & ALDRICH
 Design & Construction

CONSTRUCTION COMPLETION REPORT
 FORMER MGP SITE
 HAMMOND, INDIANA

BARRIER WALL AS-BUILT

SCALE: AS SHOWN
 MAY 2009

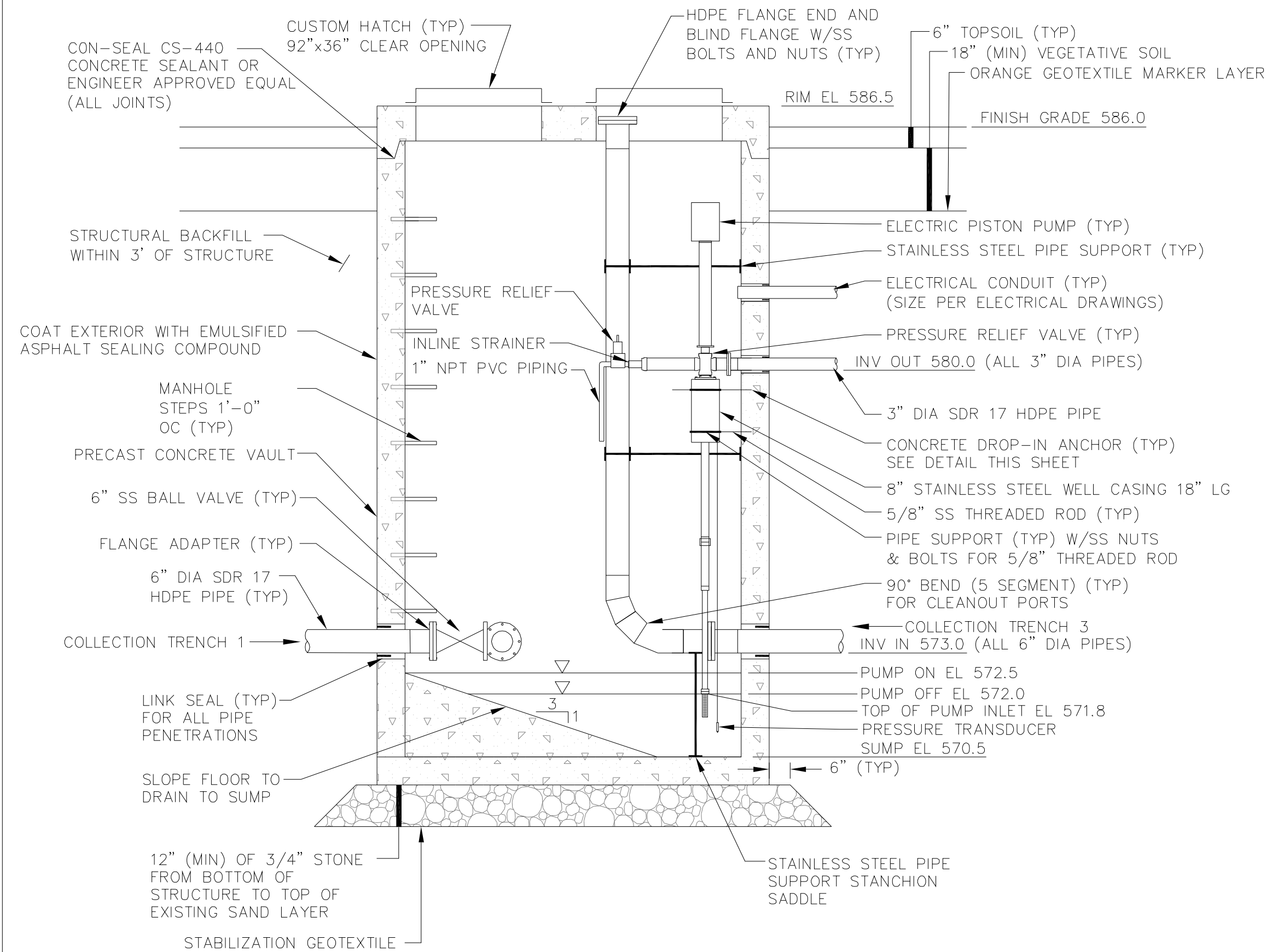
FIGURE 4



PRECAST CONCRETE STRUCTURE NOTES:

1. CONCRETE STRENGTH SHALL BE 4000 PSI (MIN) AFTER 28 DAYS.
2. MANHOLE AND COVER SHALL BE DESIGNED FOR H-20 LOADING.
3. PRECAST STRUCTURE PROVIDER SHALL SUBMIT MANHOLE FLOATION CALCULATIONS FOR EACH STRUCTURE ASSUMING MAXIMUM WATER ELEVATION IS 584.0 OUTSIDE STRUCTURE AND NO WATER WITHIN STRUCTURE.
4. SUPPORT BRACKET SHALL BE SUBMITTED FOR APPROVAL BY PROJECT MANAGER.

PLAN



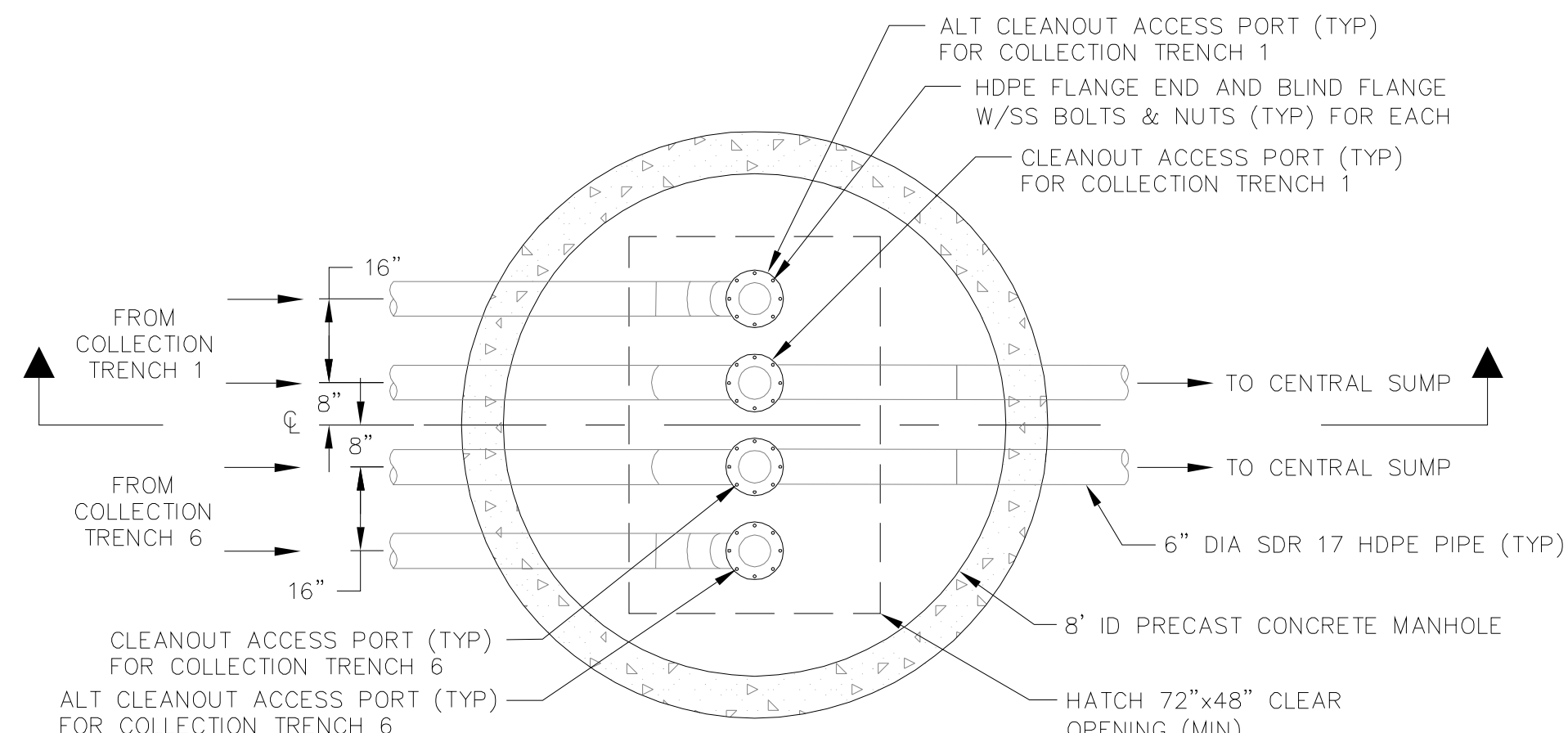
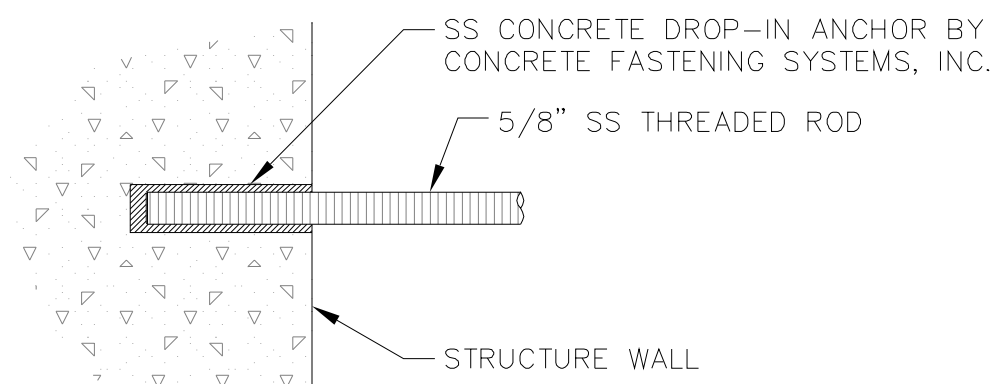
SECTION

CENTRAL SUMP
NTS

NOTE:

INSTALL DROP-IN ANCHOR PER MANUFACTURER'S RECOMMENDATIONS.

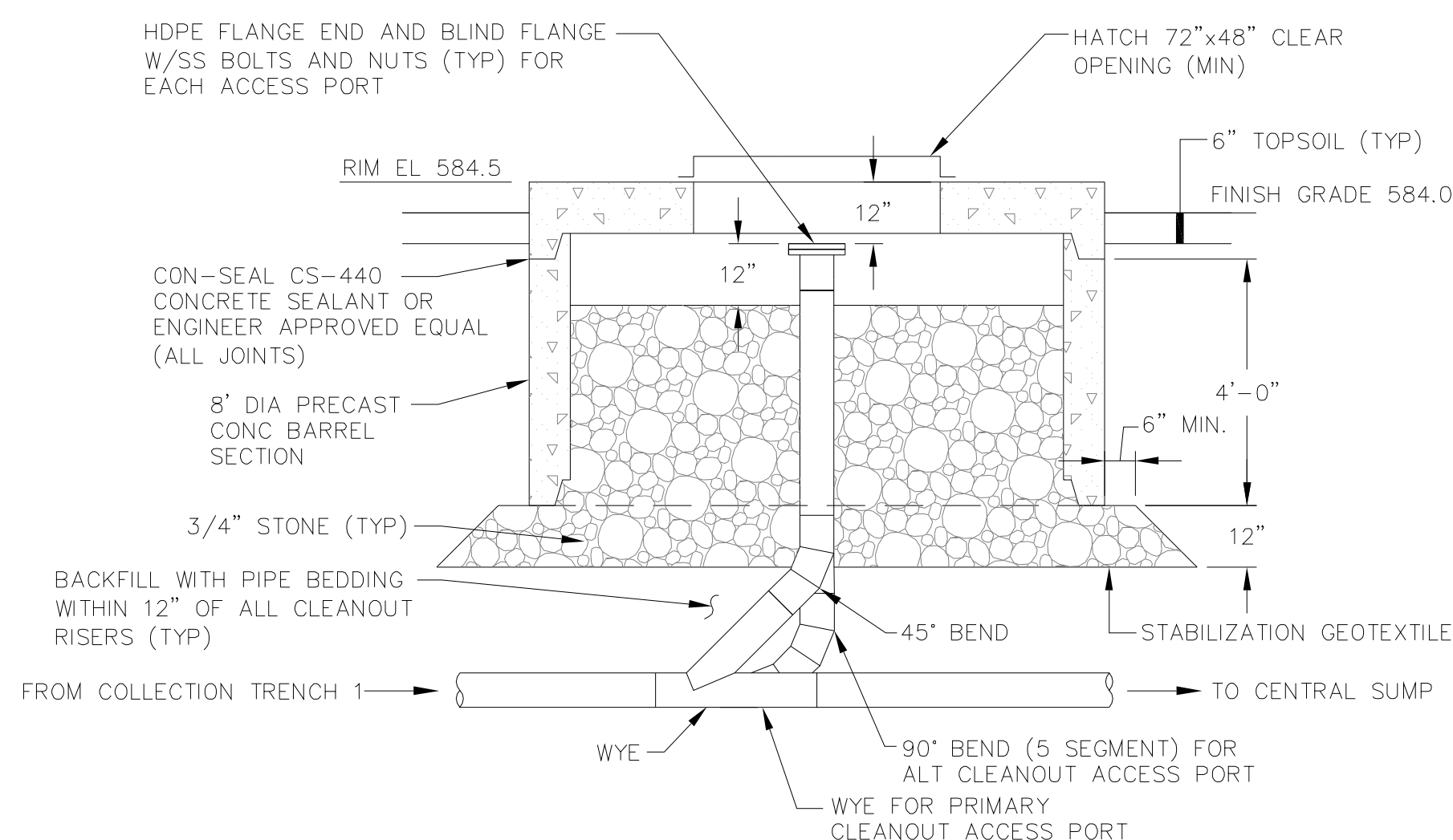
CONCRETE DROP-IN ANCHOR
NTS



NOTES:

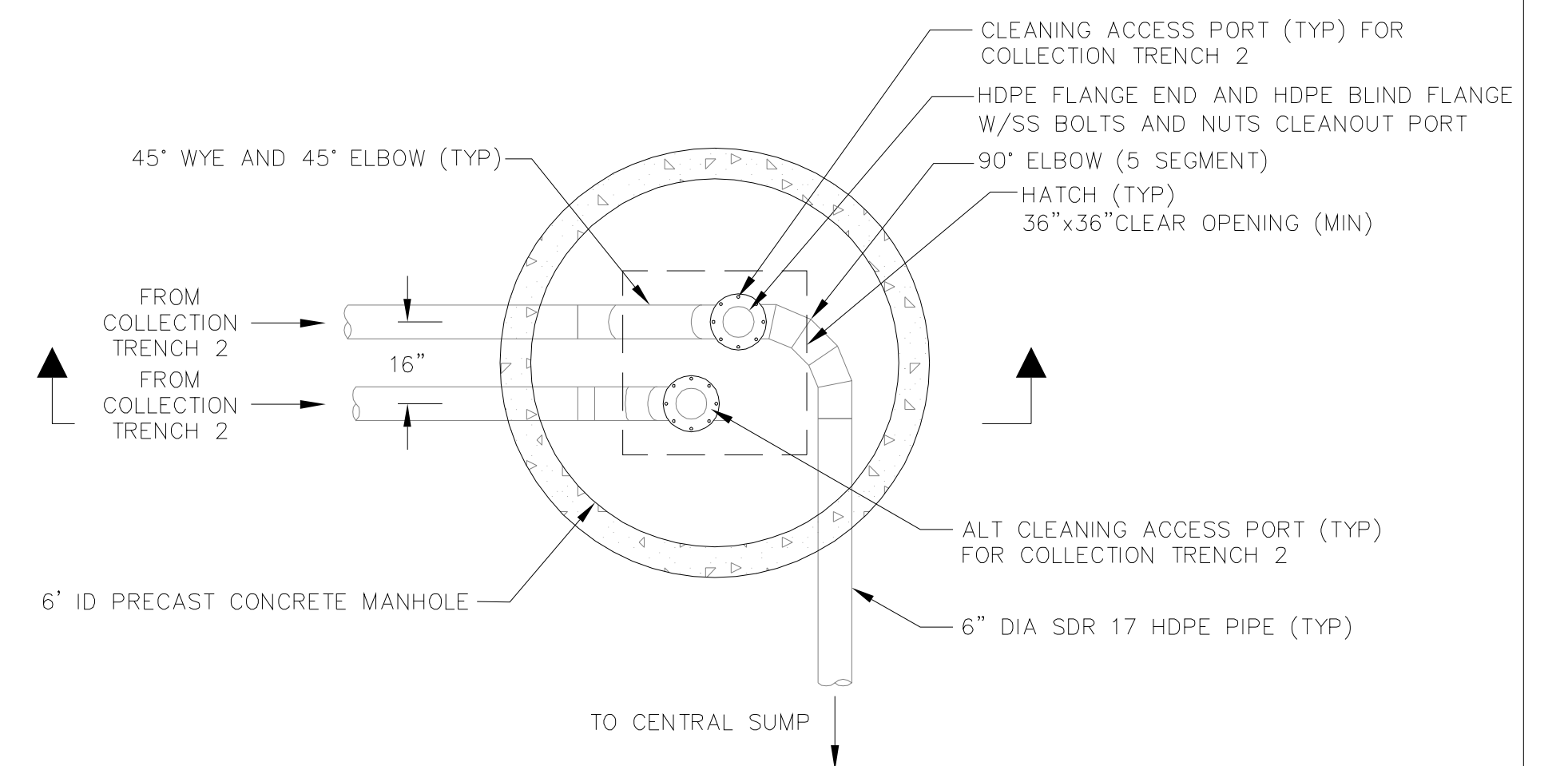
1. ALL CLEANOUT MANHOLE MH-1 PIPING AND FITTINGS SHALL BE 6" DIA SDR 17 HDPE UNLESS OTHERWISE SPECIFIED.
2. ALL PIPE ACCESS PORTS SHALL BE POSITIONED SO THAT THEY ARE EASILY ACCESSIBLE FROM HATCHES.

PLAN



SECTION

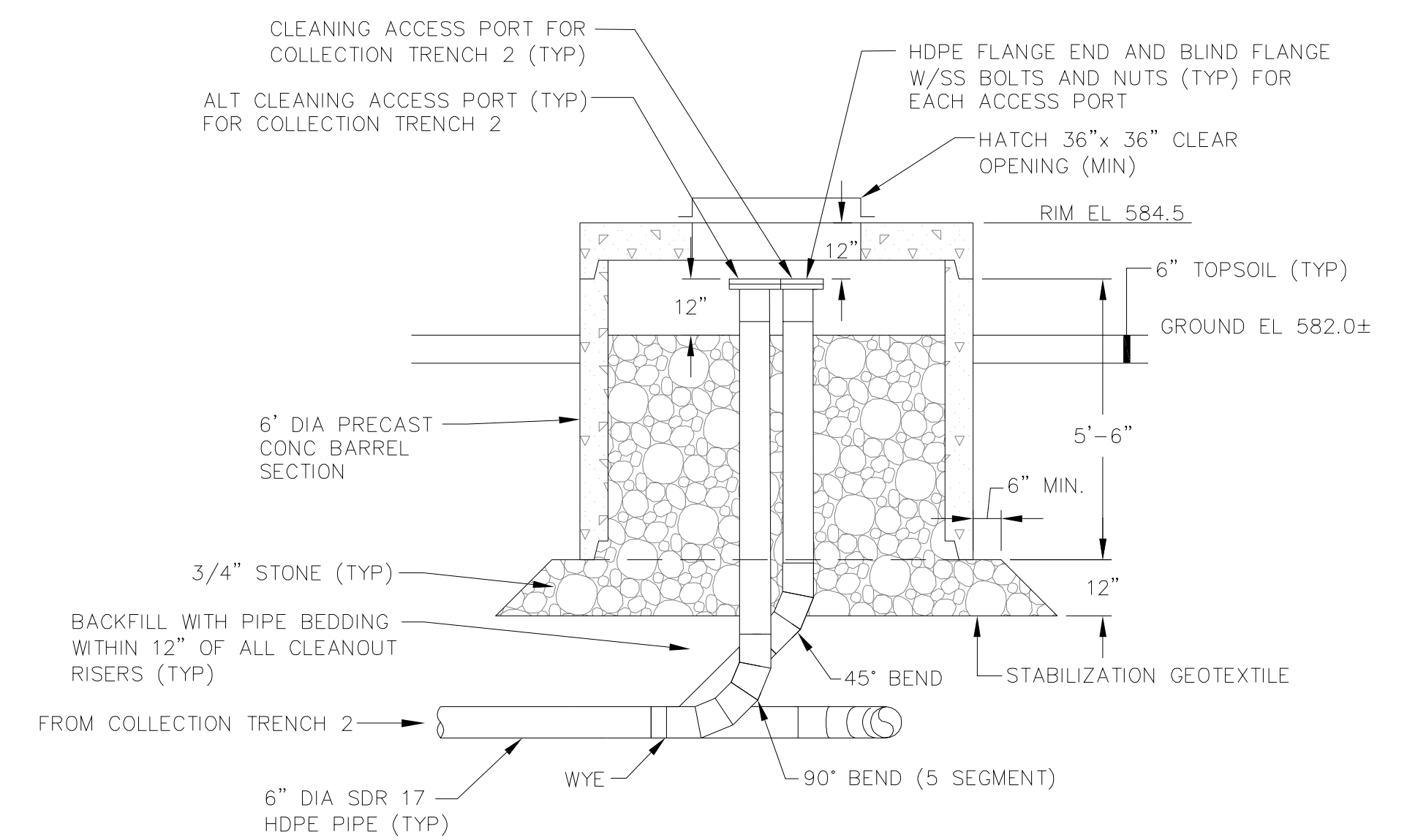
CLEANOUT MANHOLE MH-1
NTS



NOTES:

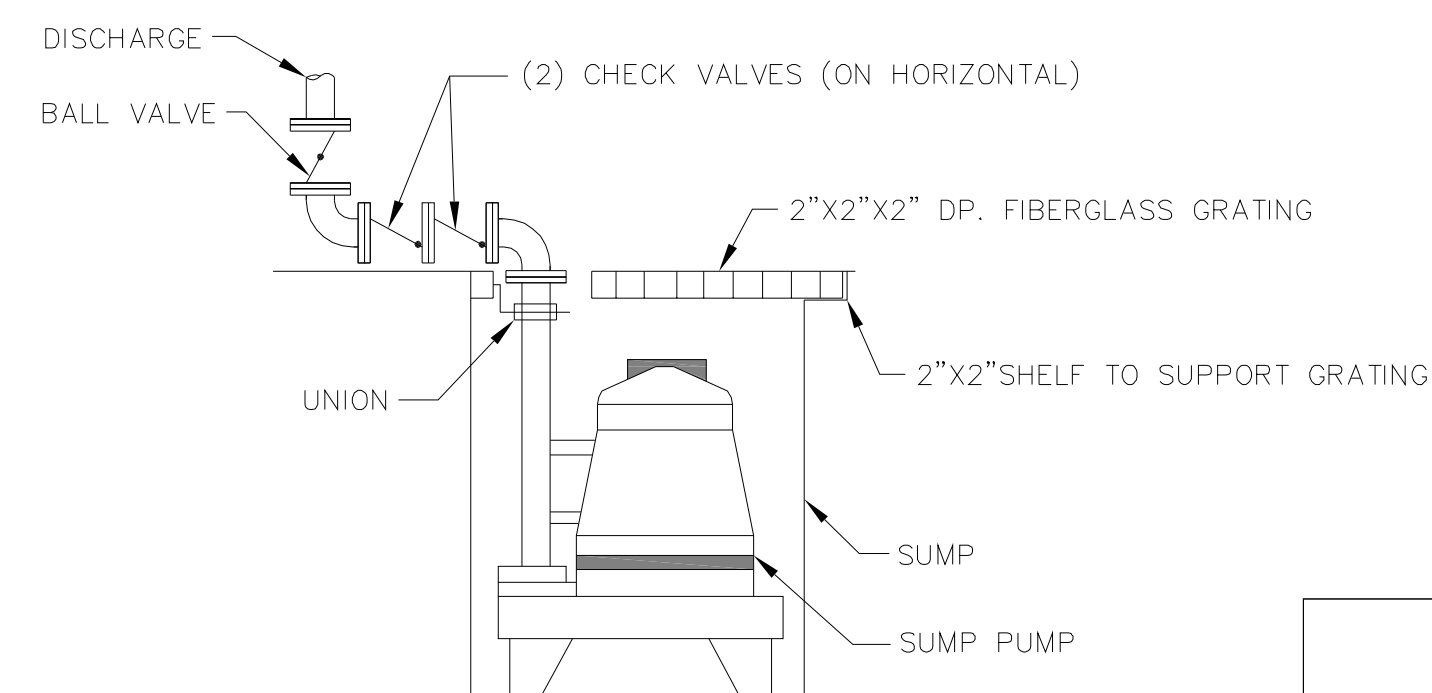
1. ALL CLEANOUT MANHOLE MH-2 PIPING AND FITTINGS SHALL BE 6" DIA SDR 17 HDPE UNLESS OTHERWISE SPECIFIED.
2. ALL PIPE ACCESS PORTS SHALL BE POSITIONED SO THAT THEY ARE EASILY ACCESSIBLE FROM HATCHES.

PLAN



SECTION

CLEANOUT MANHOLE MH-2
NTS



SUMP PUMP
SCALE: 1/2"=1'-0"

REV.	BY	DATE	STATUS
		11/9/07	100% ISSUED FOR CONSTRUCTION
	BBJ	10/19/07	90% REVISED BASED ON IDEM COMMENTS
	BBJ	3/30/07	90% IDEM REVIEW
	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA

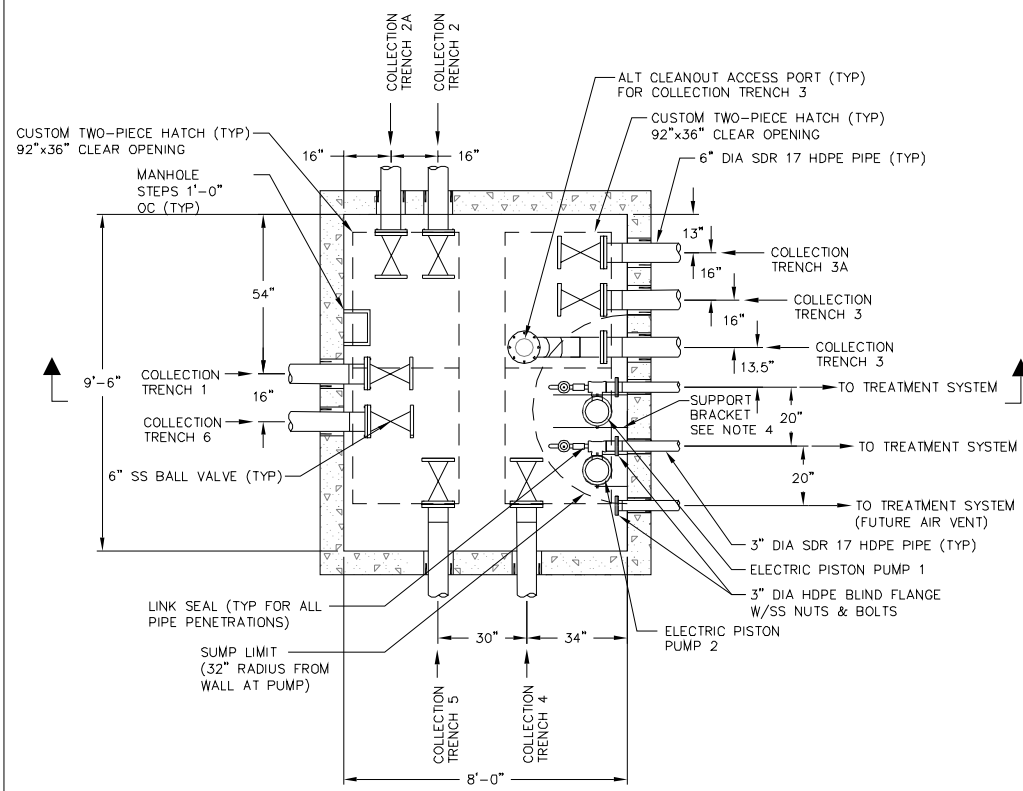
SECTIONS AND DETAILS

SME
Sevee & Maher Engineers, Inc.
Consulting Engineers
Cumberland Center, Maine

DESIGN BY: BDP
DRAWN BY: PAF
DATE: 8/2/07
CHECKED BY:
LMN:
CTB: DETAILS

JOB NO. 07054 DWG FILE DETAILS

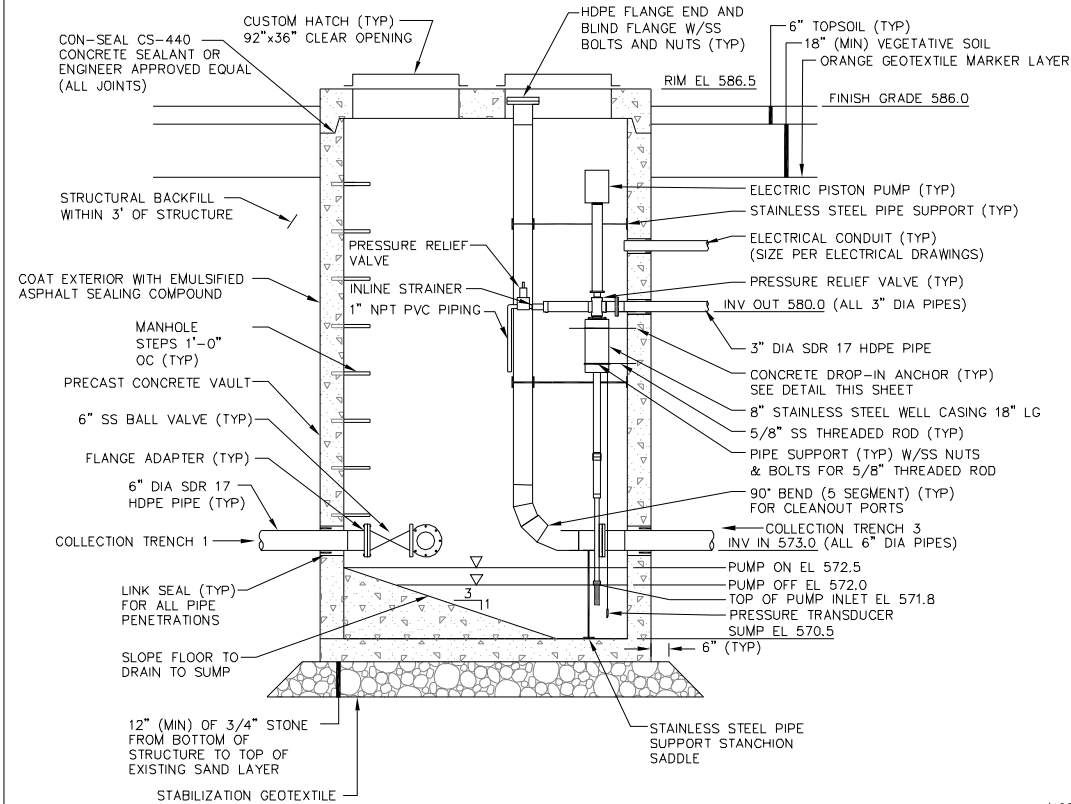
C-300



PRECAST CONCRETE STRUCTURE NOTES:

1. CONCRETE STRENGTH SHALL BE 4000 PSI (MIN) AFTER 28 DAYS.
2. MANHOLE AND COVER SHALL BE DESIGNED FOR H-20 LOADING.
3. PRECAST STRUCTURE PROVIDER SHALL SUBMIT MANHOLE FLOATION CALCULATIONS FOR EACH STRUCTURE ASSUMING MAXIMUM WATER ELEVATION IS 584.0 OUTSIDE STRUCTURE AND NO WATER WITHIN STRUCTURE.
4. SUPPORT BRACKET SHALL BE SUBMITTED FOR APPROVAL BY PROJECT MANAGER.

PLAN

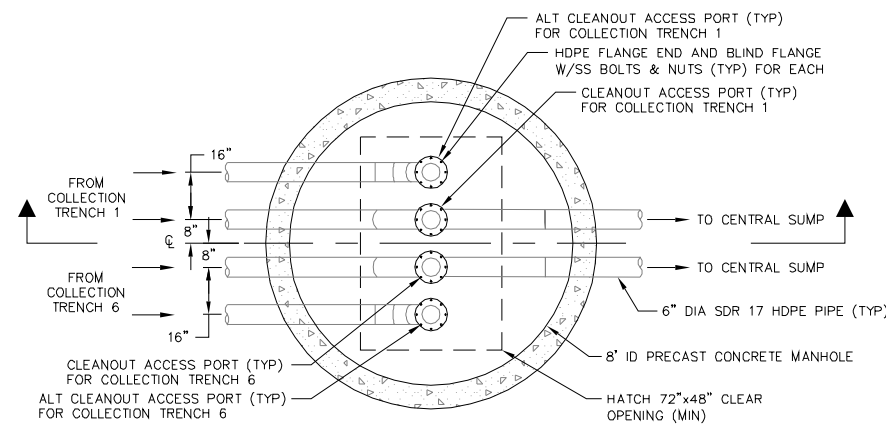


**SECTION
CENTRAL SUMP
NTS**

NOTE:

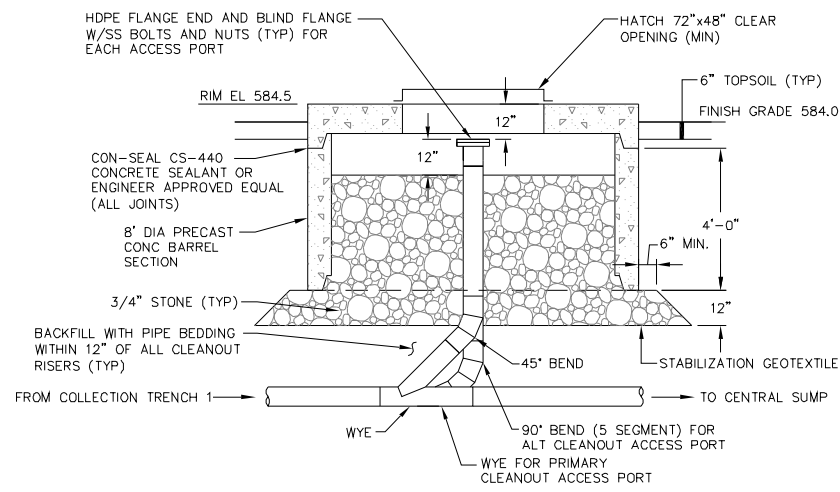
INSTALL DROP-IN ANCHOR PER MANUFACTURER'S RECOMMENDATIONS.

**CONCRETE DROP-IN ANCHOR
NTS**

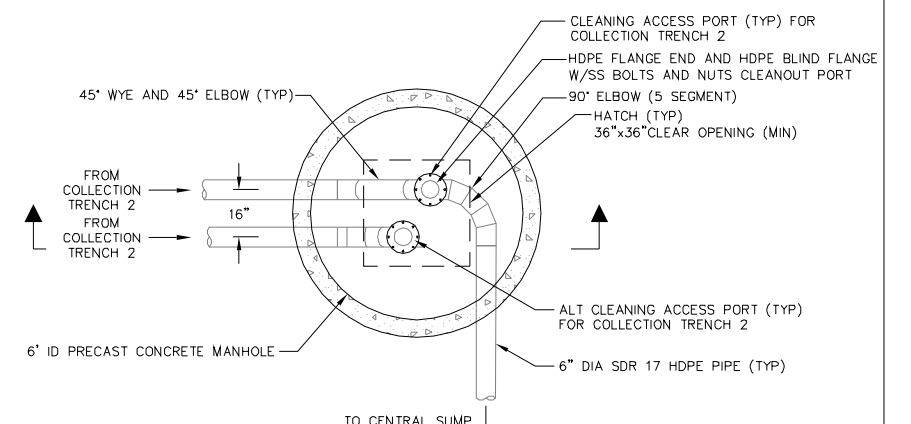


- NOTES:**
1. ALL CLEANOUT MANHOLE MH-1 PIPING AND FITTINGS SHALL BE 6" DIA SDR 17 HDPE UNLESS OTHERWISE SPECIFIED.
 2. ALL PIPE ACCESS PORTS SHALL BE POSITIONED SO THAT THEY ARE EASILY ACCESSIBLE FROM HATCHES.

PLAN

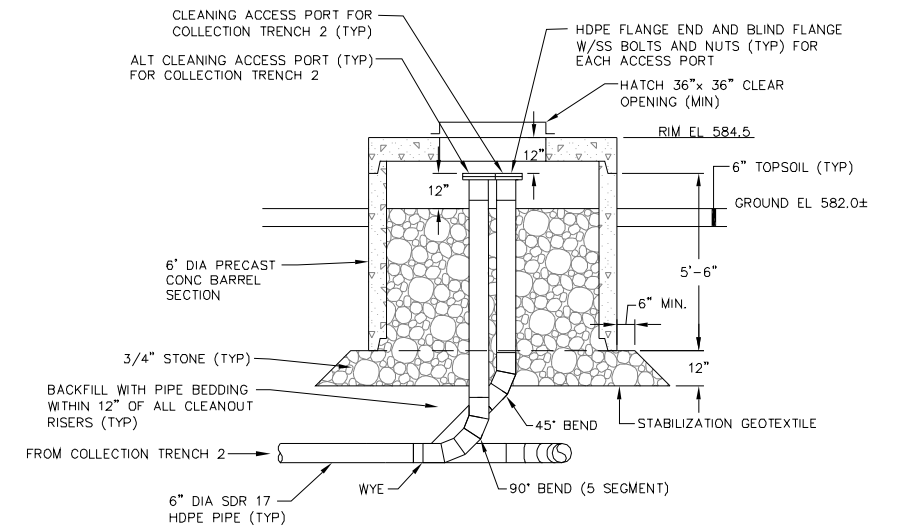


**SECTION
CLEANOUT MANHOLE MH-1
NTS**

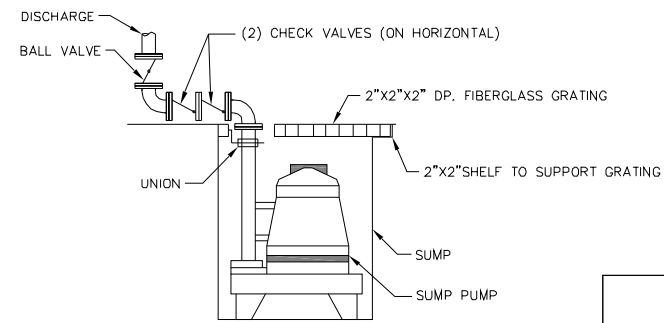


- NOTES:**
1. ALL CLEANOUT MANHOLE MH-2 PIPING AND FITTINGS SHALL BE 6" DIA SDR 17 HDPE UNLESS OTHERWISE SPECIFIED.
 2. ALL PIPE ACCESS PORTS SHALL BE POSITIONED SO THAT THEY ARE EASILY ACCESSIBLE FROM HATCHES.

PLAN



**SECTION
CLEANOUT MANHOLE MH-2
NTS**



**SUMP PUMP
SCALE: 1/2"=1'-0"**

REV.	BY	DATE	STATUS
		11/9/07	100% ISSUED FOR CONSTRUCTION
	BBJ	10/19/07	90% REVISED BASED ON IDEM COMMENTS
	BBJ	3/30/07	90% IDEM REVIEW
	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

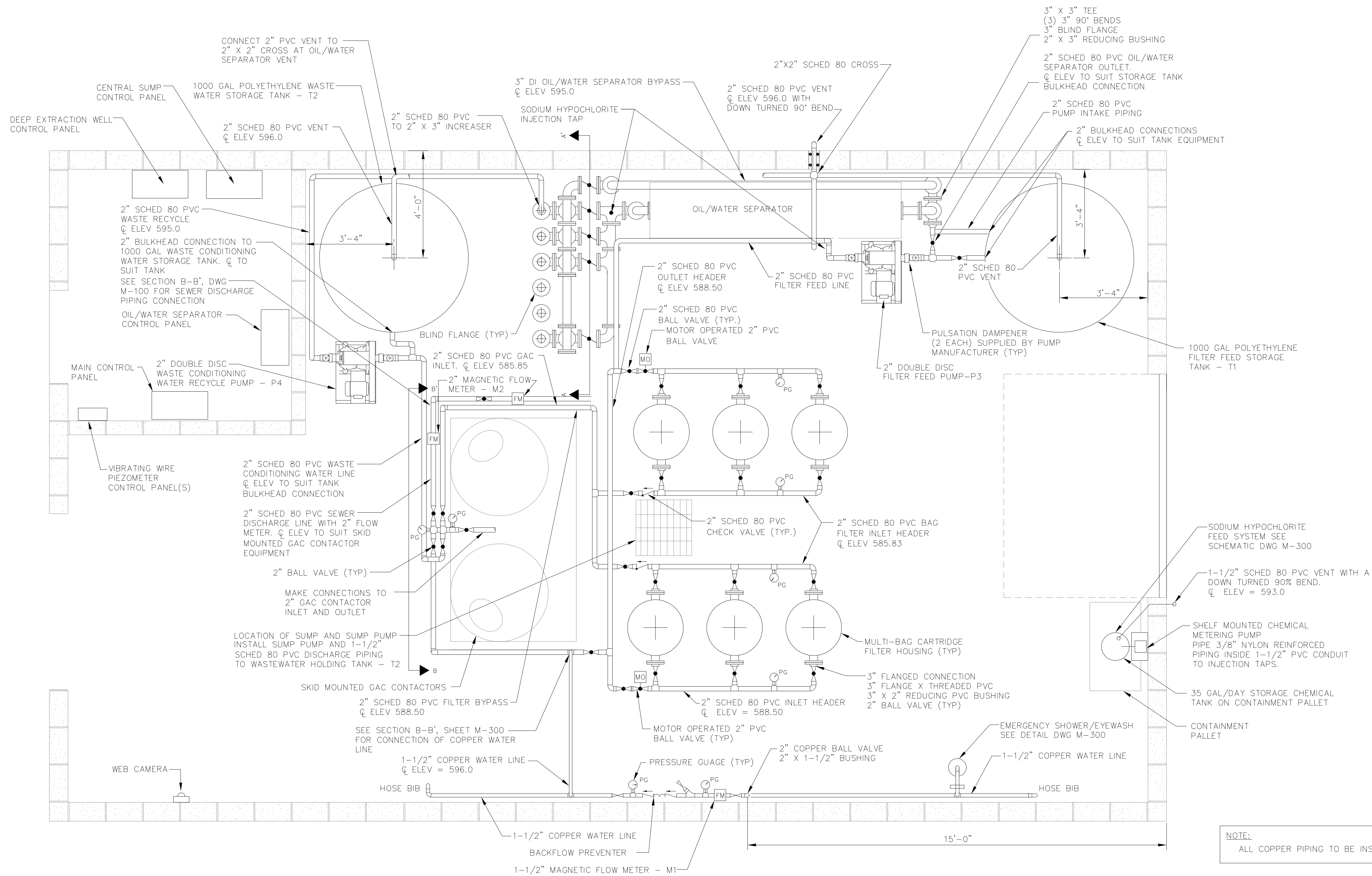
NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA

SECTIONS AND DETAILS

SME
Sevee & Maher Engineers, Inc.
Consulting Engineers
Cumberland Center, Maine

DESIGN BY: BDP
DRAWN BY: PAF
DATE: 8/2/07
CHECKED BY:
LMN:
CTB: DETAILS

JOB NO. 07054 DWG FILE DETAILS C-300




MECHANICAL BUILDING FLOOR PLAN
SCALE: 1/2"=1'-0"

REV.	BY	DATE	STATUS
		11/9/07	100% ISSUED FOR CONSTRUCTION
	BBJ	10/19/07	90% REVISED BASED ON IDEM COMMENTS
	BBJ	8/10/07	100% ISSUED FOR CONSTRUCTION
	BBJ	3/30/07	90% IDEM REVIEW
	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA

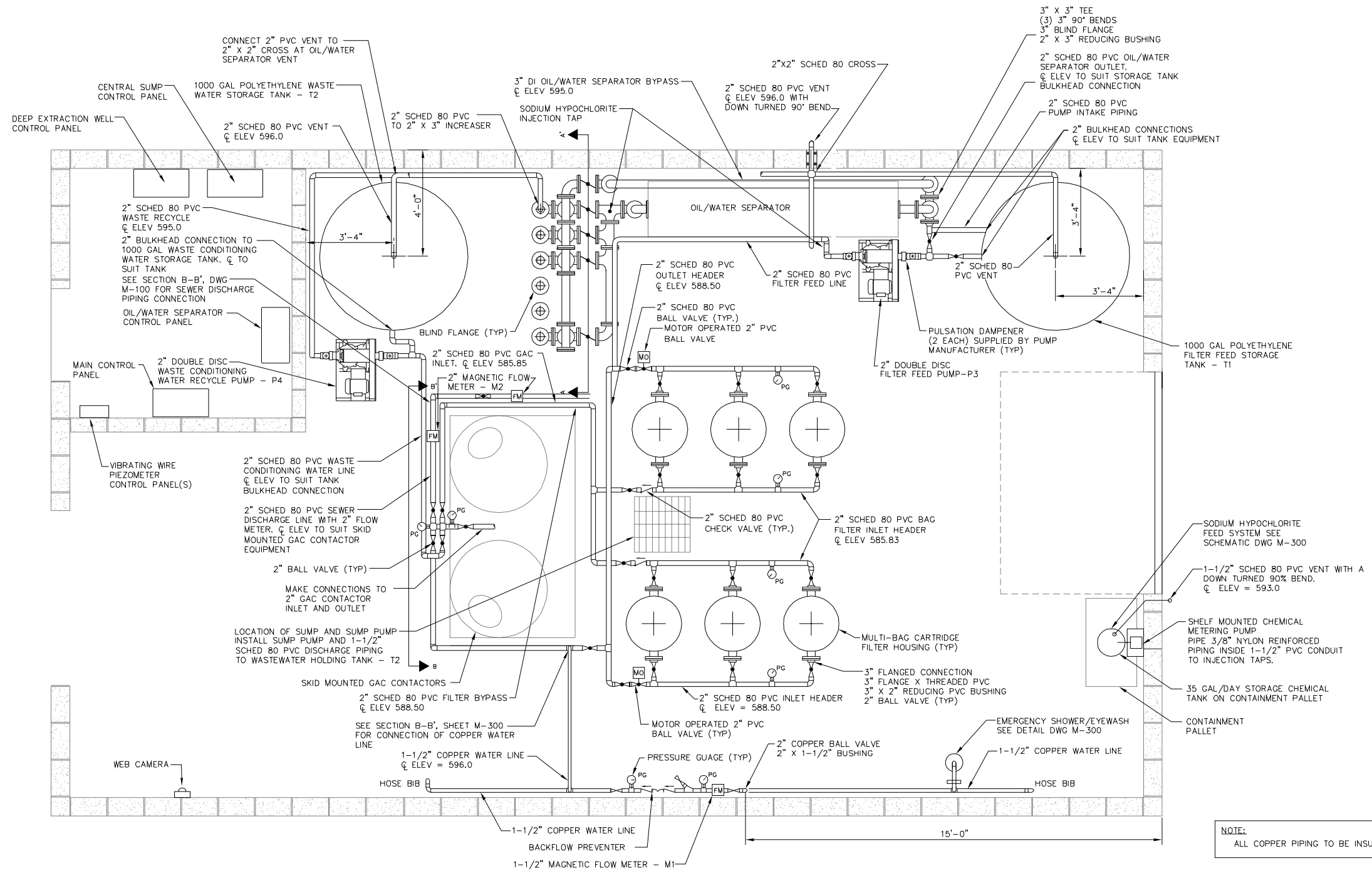
GWPTDS-MECHANICAL FLOOR PLAN



SME
Sevee & Maher Engineers, Inc.
Consulting Engineers
Cumberland Center, Maine

DESIGN BY: WJD
DRAWN BY: MBISK
DATE: 8/2/07
CHECKED BY:
LMN: PROFILES
CTB: PROFILES

JOB NO. 07054 DWG FILE DETAILS M-100



NOTE:
ALL COPPER PIPING TO BE INSULATED.

MECHANICAL BUILDING FLOOR PLAN
SCALE: 1/2"=1'-0"

NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA
GWPTDS-MECHANICAL FLOOR PLAN

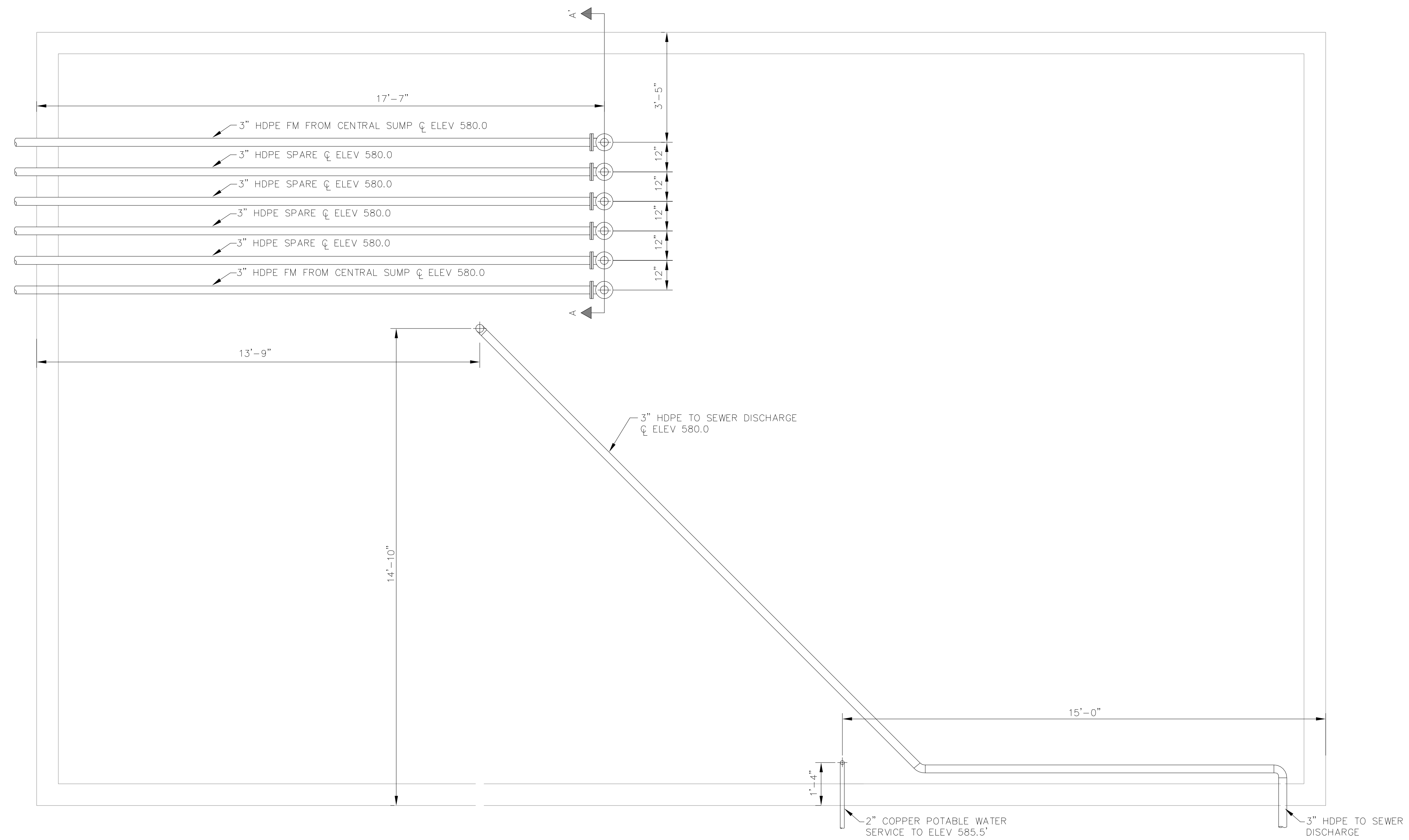
REV.	BY	DATE	STATUS
		11/9/07	100% ISSUED FOR CONSTRUCTION
	BBJ	10/19/07	90% REVISED BASED ON IDEM COMMENTS
	BBJ	8/10/07	100% ISSUED FOR CONSTRUCTION
	BBJ	3/30/07	90% IDEM REVIEW
	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

SME
Sevee & Maher Engineers, Inc.
Consulting Engineers
Cumberland Center, Maine

DESIGN BY: WJD
DRAWN BY: MBISK
DATE: 8/2/07
CHECKED BY:
LMN: PROFILES
CTB: PROFILES


JOB NO. 07054 DWG FILE DETAILS

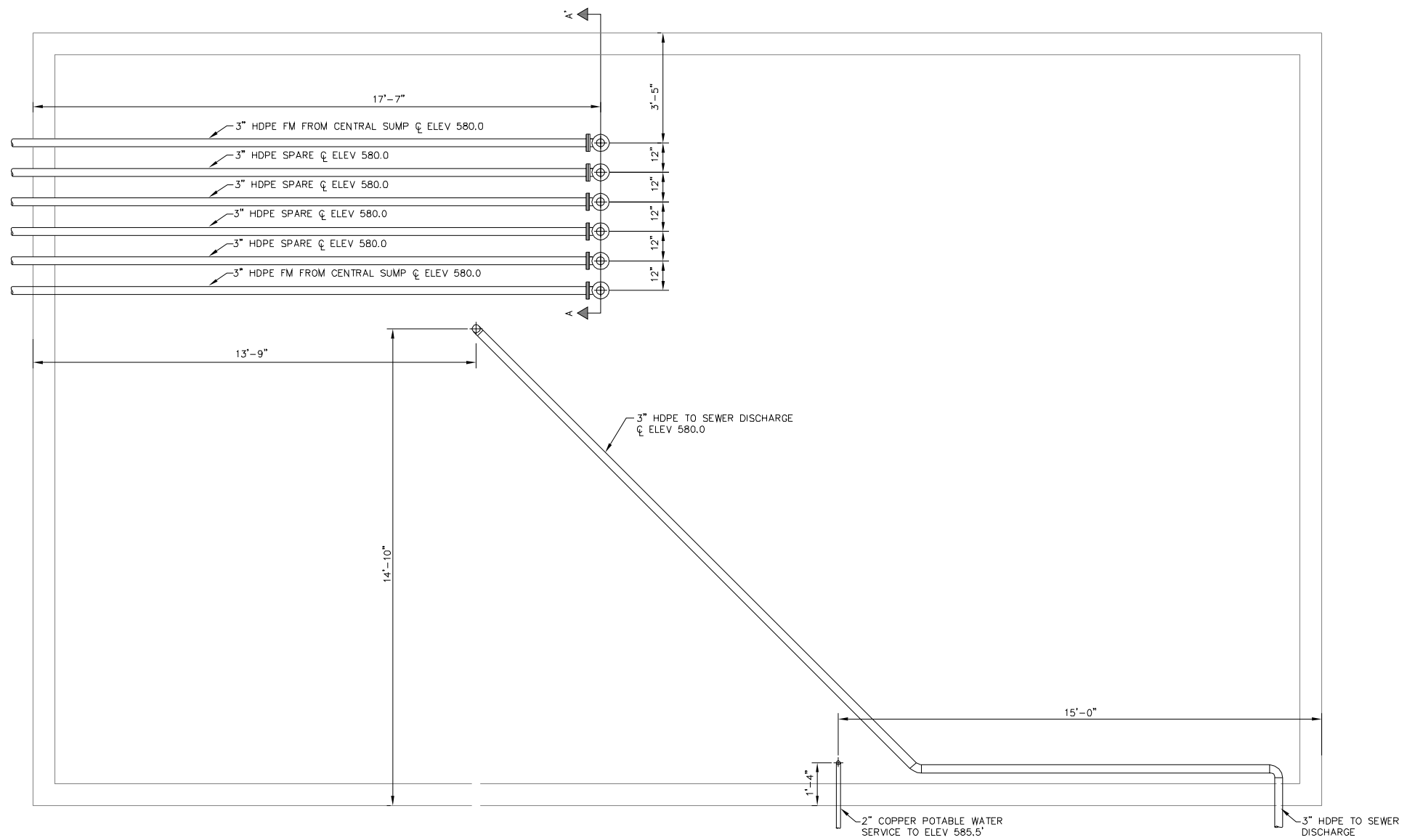
M-100



MECHANICAL FOUNDATION PLAN
SCALE: 1/2"=1'-0"


REV.	BY	DATE	STATUS
		11/9/07	100% ISSUED FOR CONSTRUCTION
	BBJ	10/19/07	90% REVISED BASED ON IDEM COMMENTS
	BBJ	8/10/07	100% ISSUED FOR CONSTRUCTION
	BBJ	3/30/07	90% IDEM REVIEW
	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

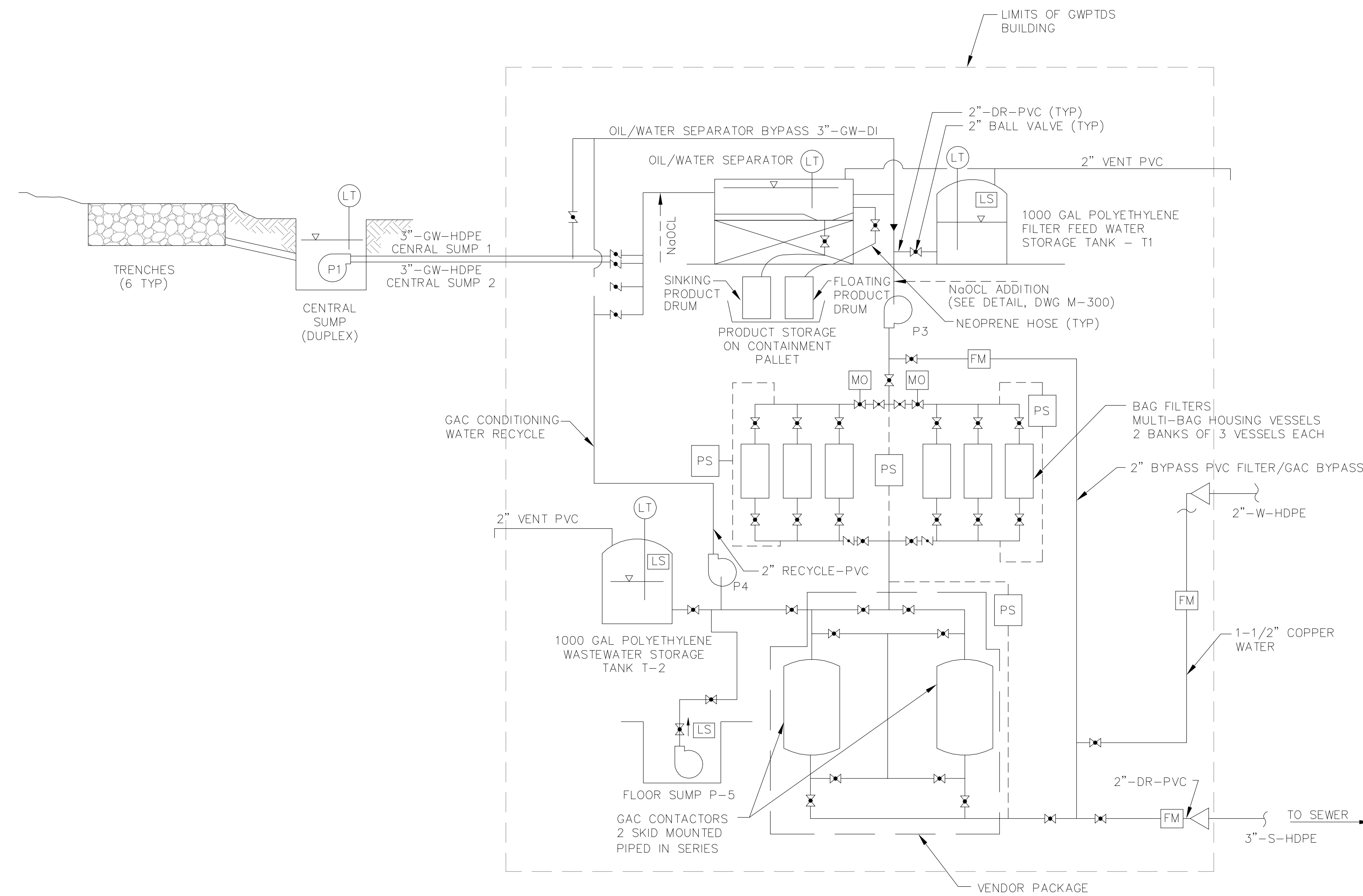
NIPSCO UPLAND REMEDIAL ACTION FORMER MGP SITE HAMMOND, INDIANA GWPTDS-MECHANICAL FOUNDATION PLAN	
 Sevee & Maher Engineers, Inc. <small>Consulting Engineers Cumberland Center, Maine</small>	DESIGN BY: WJD DRAWN BY: MBISK DATE: 8/2/07 CHECKED BY: LMN: DETAILS CTB: DETAILS
JOB NO. 07054 DWG FILE DETAILS	M-101



MECHANICAL FOUNDATION PLAN
SCALE: 1/2"=1'-0"

REV.	BY	DATE	STATUS
		11/9/07	100% ISSUED FOR CONSTRUCTION
	BBJ	10/19/07	90% REVISED BASED ON IDEM COMMENTS
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	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

NIPSCO UPLAND REMEDIAL ACTION FORMER MGP SITE HAMMOND, INDIANA GWPTDS-MECHANICAL FOUNDATION PLAN	
 Sevee & Maher Engineers, Inc. <small>Consulting Engineers Cumberland Center, Maine</small>	DESIGN BY: WJD DRAWN BY: MBISK DATE: 8/2/07 CHECKED BY: LMN: DETAILS CTB: DETAILS
JOB NO. 07054 DWG FILE DETAILS	M-101



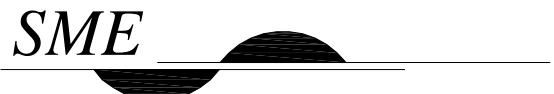
PROCESS SCHEMATIC
N.T.S.

- LEGEND
- BALL VALVE
 - BUTTERFLY VALVE
 - CHECK VALVE
 - PUMP
 - FLOW METER (MAGMETER)
 - LEVEL TRANSMITTER
 - MOTOR OPERATED VALVE
 - INCREASER/REDUCER
 - PRESSURE SWITCH
 - LEVEL SWITCH

NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA

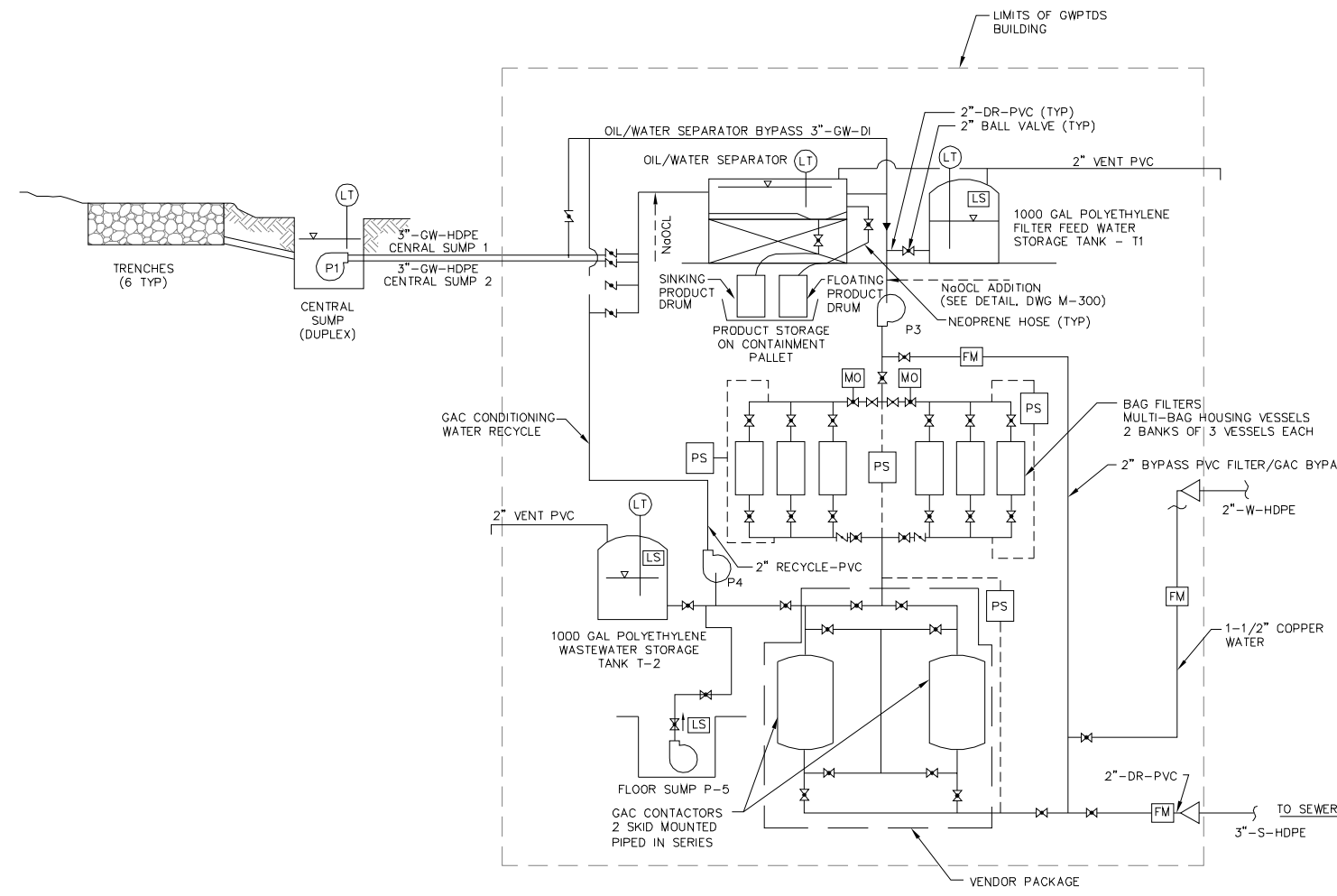
GWPTDS-P&ID SCHEMATIC

REV.	BY	DATE	STATUS
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	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW



SME
Sevee & Maher Engineers, Inc.
Consulting Engineers
Cumberland Center, Maine

DESIGN BY: WJD
DRAWN BY: MBISK
DATE: 1/6/05
CHECKED BY:
LMN:
CTB:




PROCESS SCHEMATIC
N.T.S.

- LEGEND
- BALL VALVE
 - BUTTERFLY VALVE
 - CHECK VALVE
 - PUMP
 - FLOW METER (MAGMETER)
 - LEVEL TRANSMITTER
 - MOTOR OPERATED VALVE
 - INCREASER/REDUCER
 - PRESSURE SWITCH
 - LEVEL SWITCH

REV.	BY	DATE	STATUS
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	BBJ	3/30/07	90% IDEM REVIEW
	BBJ	3/16/07	90% NISOURCE REVIEW
	BBJ	3/2/07	90% CLIENT REVIEW

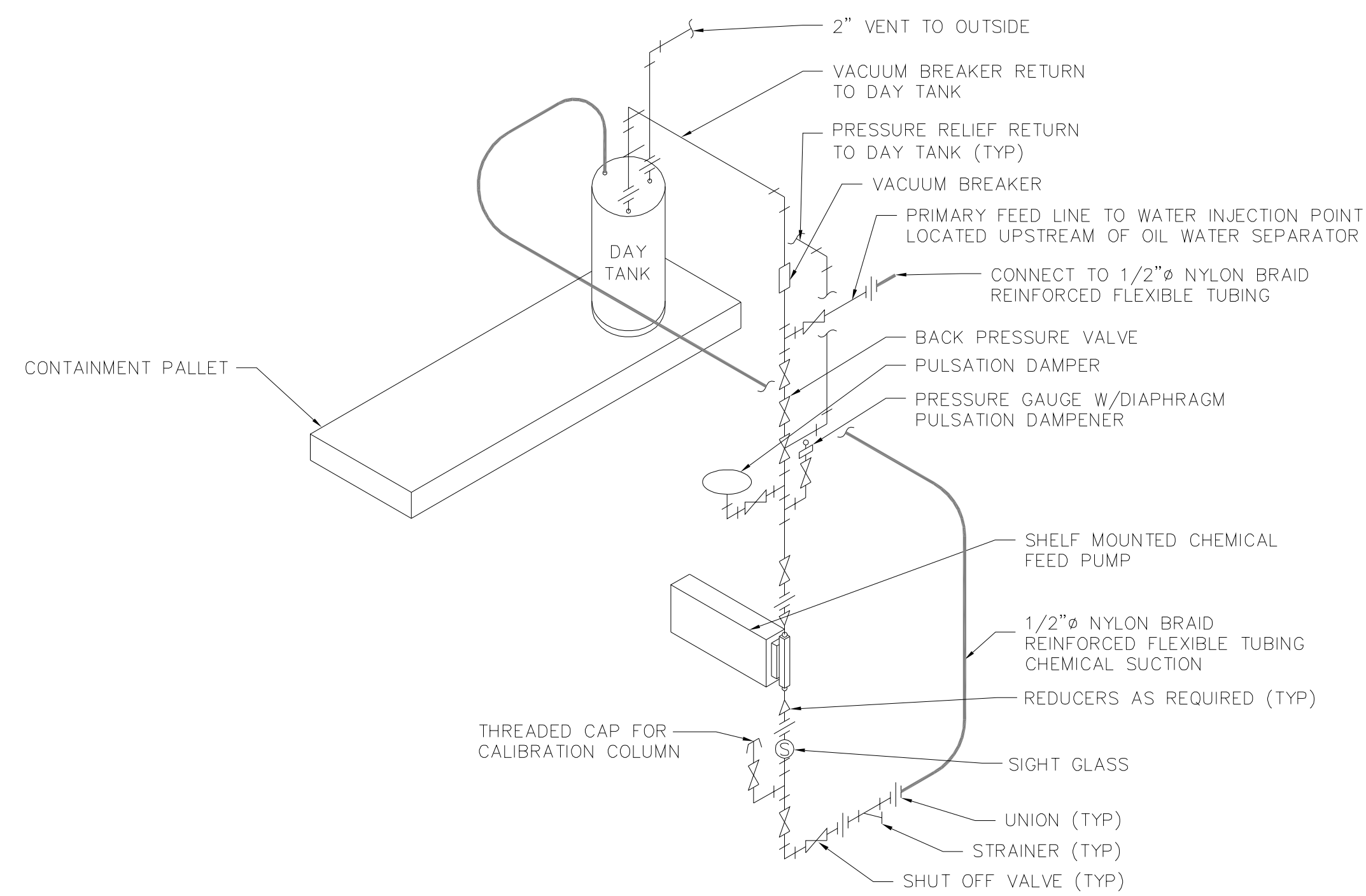
NIPSCO
UPLAND REMEDIAL ACTION
FORMER MGP SITE
HAMMOND, INDIANA

GWPTDS-P&ID SCHEMATIC

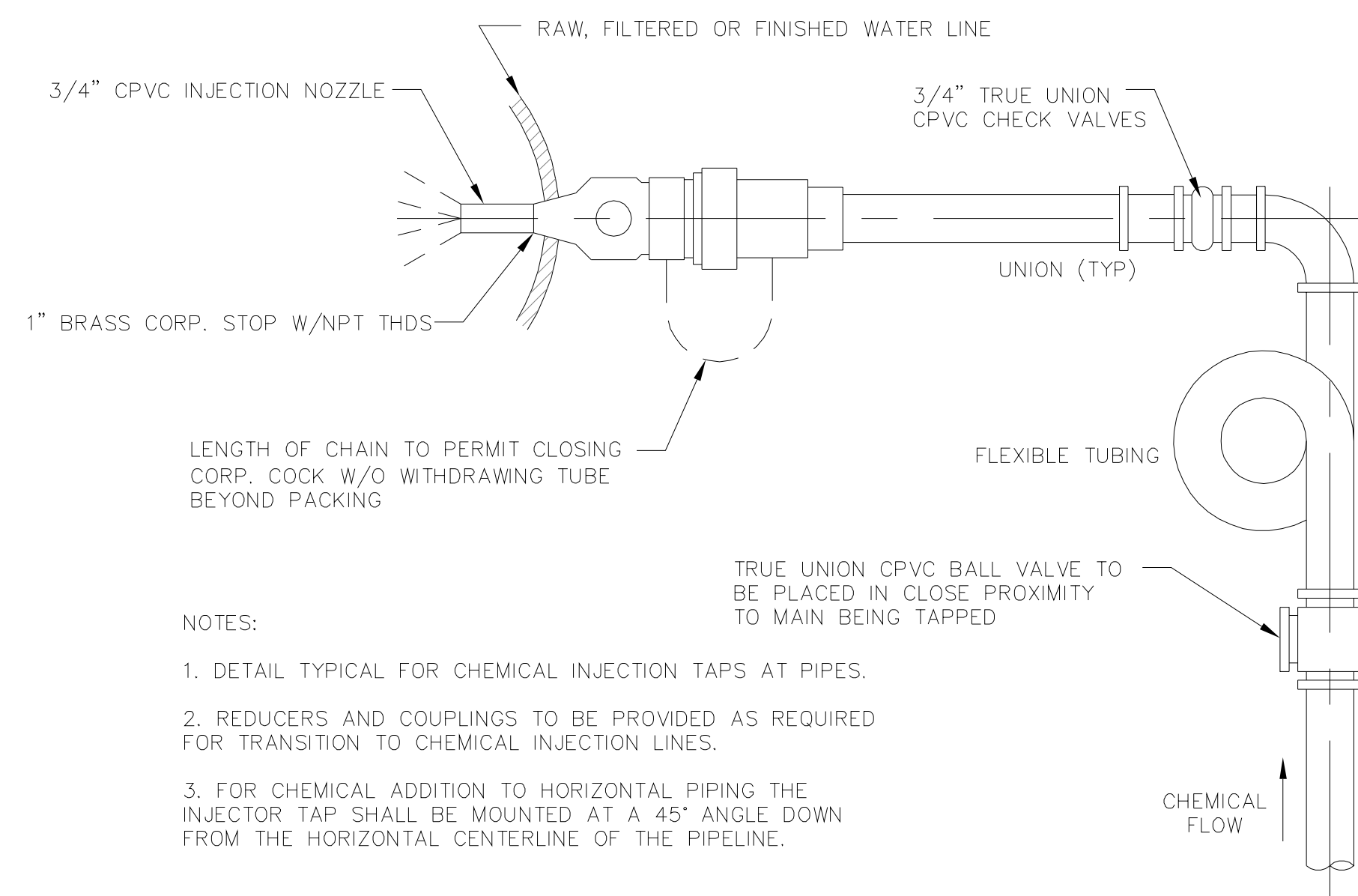

Sveve & Maher Engineers, Inc.
Consulting Engineers
Cumberland Center, Maine

DESIGN BY:	WJD
DRAWN BY:	MBISK
DATE:	1/6/05
CHECKED BY:	
LMN:	
CTB:	

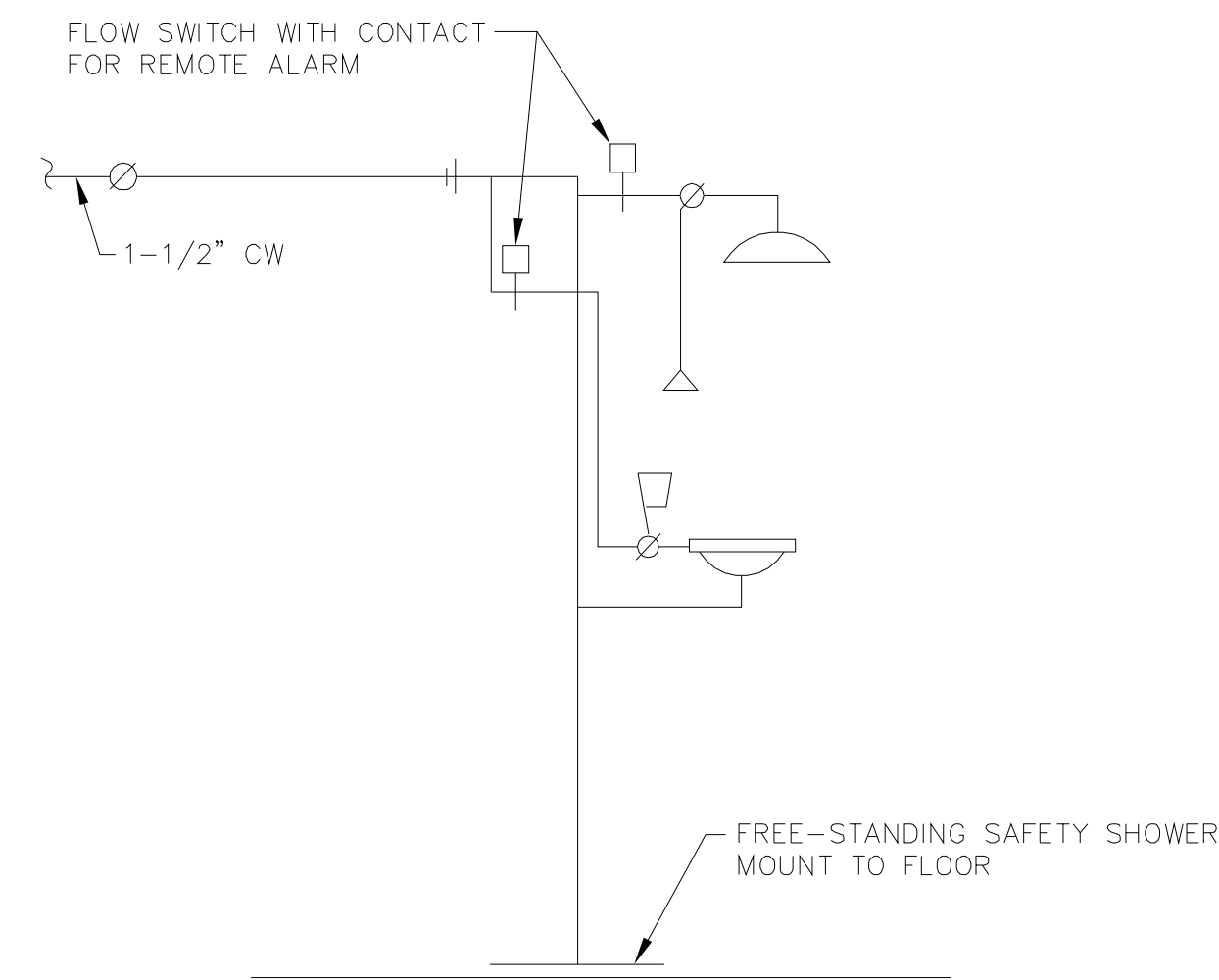
JOB NO. 06130 DWG FILE PROCESS SCHEM
M-200



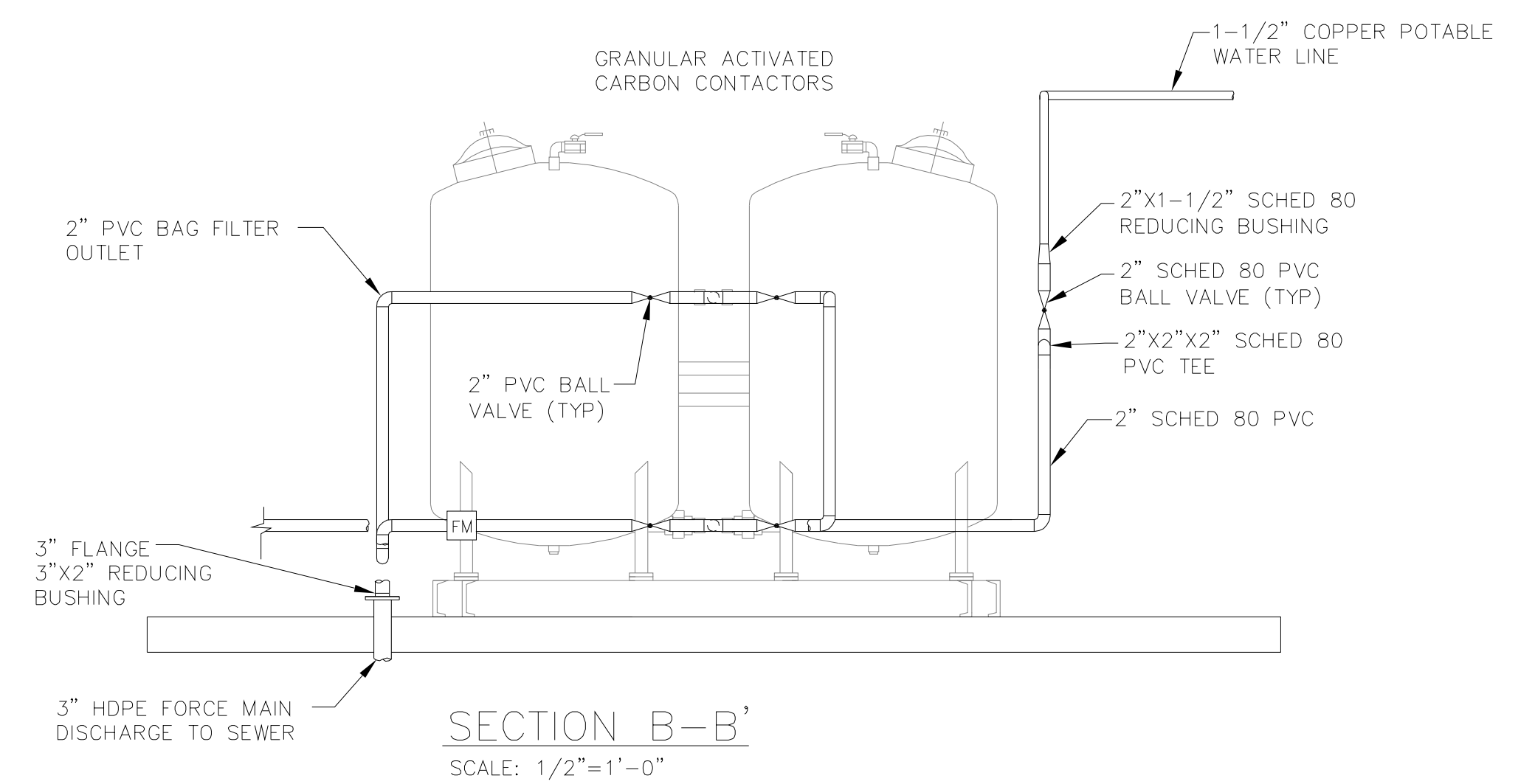
SODIUM HYPOCHLORITE FEED SCHEMATIC
 NTS



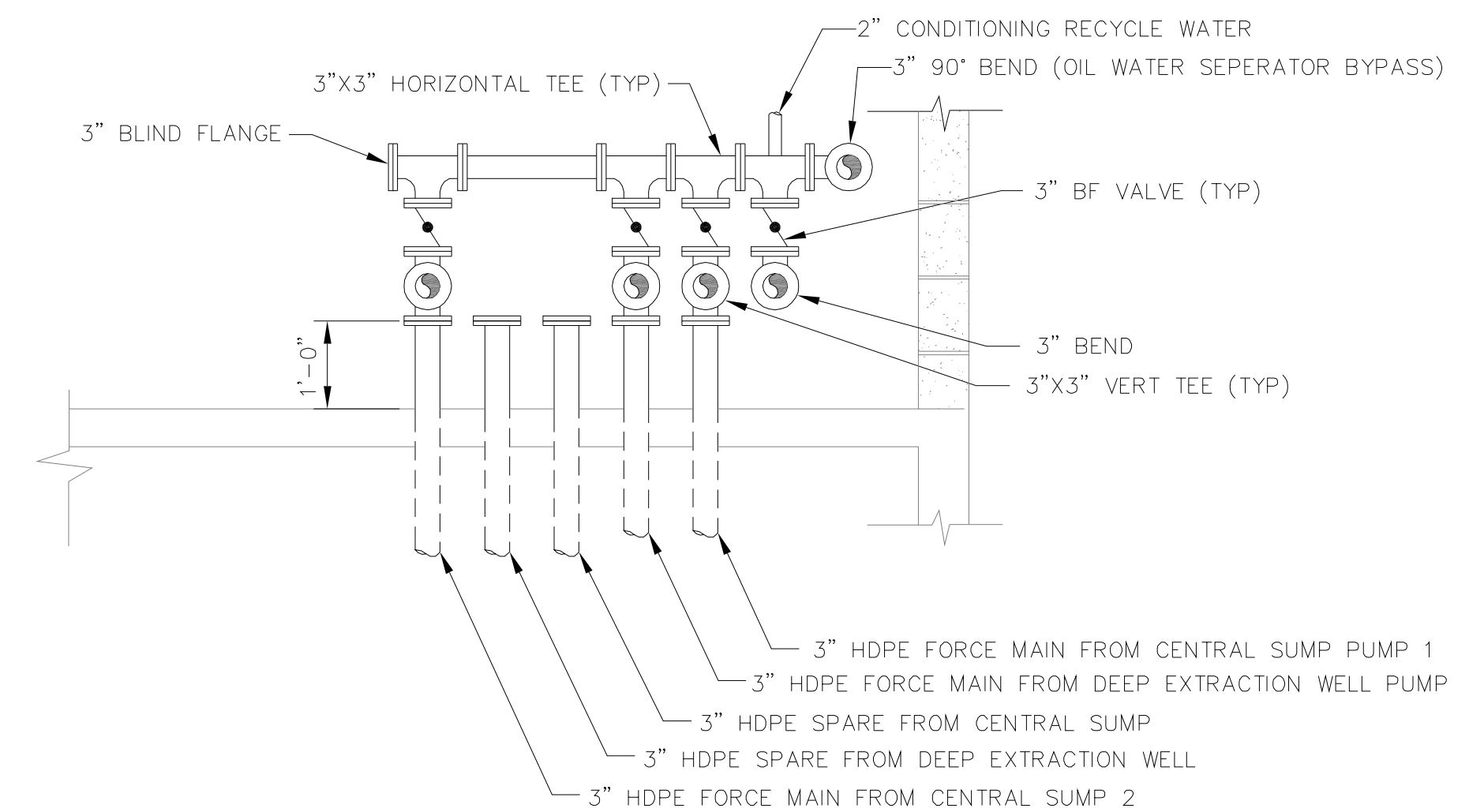
CHEMICAL INJECTION CORPORATION STOP DETAIL
 NTS



EMERGENCY SHOWER/EYEWASH DETAIL
 NTS



SECTION B-B'
 SCALE: 1/2"=1'-0"

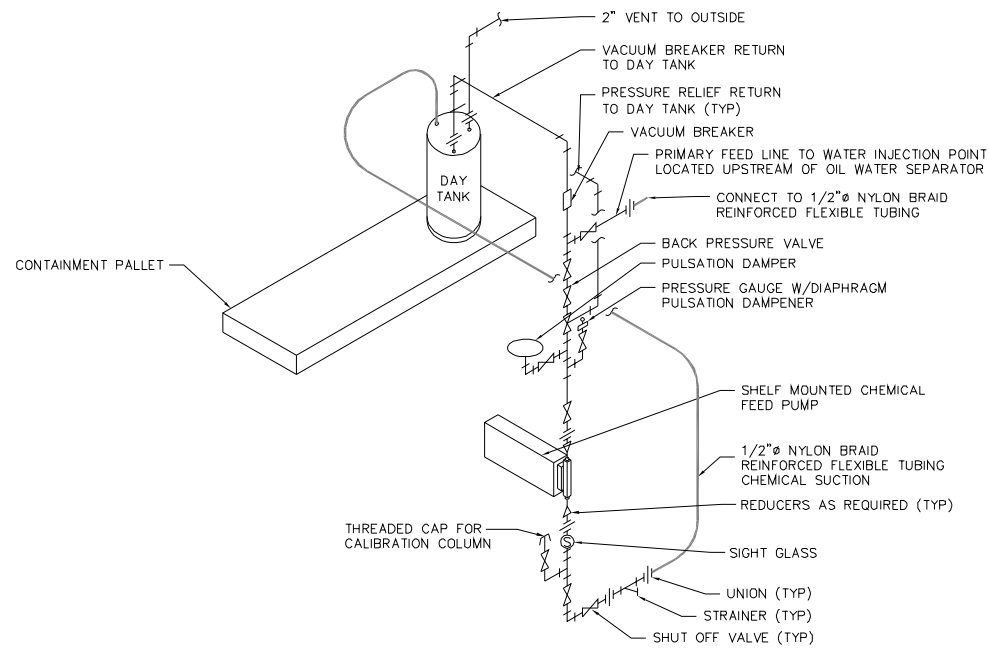


SECTION A-A'
 SCALE: 1/2"=1'-0"

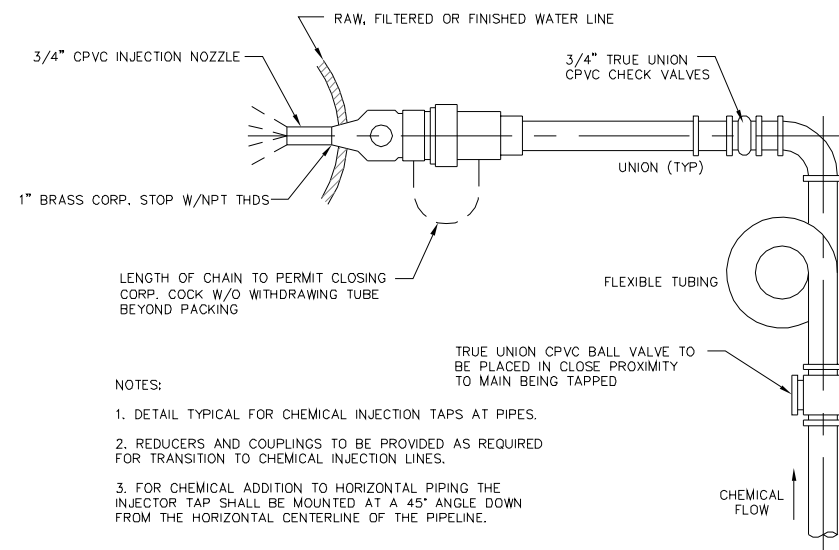
- NOTES:
1. DETAIL TYPICAL FOR CHEMICAL INJECTION TAPS AT PIPES.
 2. REDUCERS AND COUPLINGS TO BE PROVIDED AS REQUIRED FOR TRANSITION TO CHEMICAL INJECTION LINES.
 3. FOR CHEMICAL ADDITION TO HORIZONTAL PIPING THE INJECTOR TAP SHALL BE MOUNTED AT A 45° ANGLE DOWN FROM THE HORIZONTAL CENTERLINE OF THE PIPELINE.

REV.	BY	DATE	STATUS
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NIPSCO UPLAND REMEDIAL ACTION FORMER MGP SITE HAMMOND, INDIANA GWPTDS-MECHANICAL SECTIONS AND DETAILS	
 Sveve & Maher Engineers, Inc. Consulting Engineers Cumberland Center, Maine	DESIGN BY: BBJ DRAWN BY: MBISK DATE: 8/2/07 CHECKED BY: LMN: DETAILS CTB: DETAILS
JOB NO. 07054 DWG FILE DETAILS	M-300

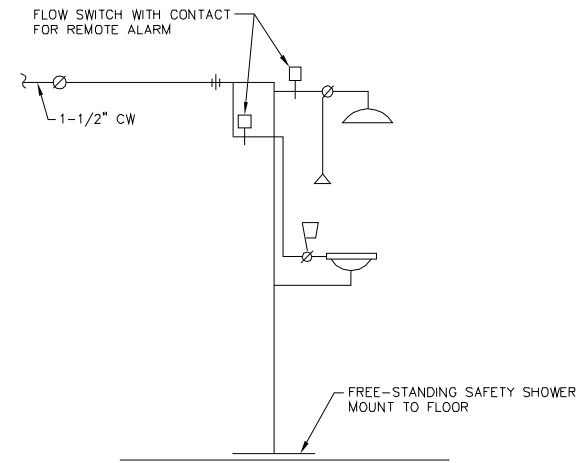


SODIUM HYPOCHLORITE FEED SCHEMATIC
 NTS

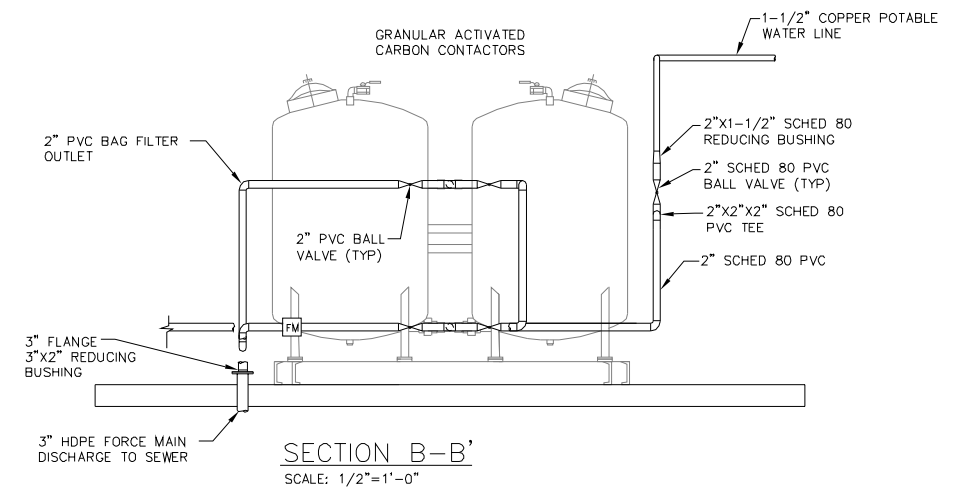


- NOTES:
1. DETAIL TYPICAL FOR CHEMICAL INJECTION TAPS AT PIPES.
 2. REDUCERS AND COUPLINGS TO BE PROVIDED AS REQUIRED FOR TRANSITION TO CHEMICAL INJECTION LINES.
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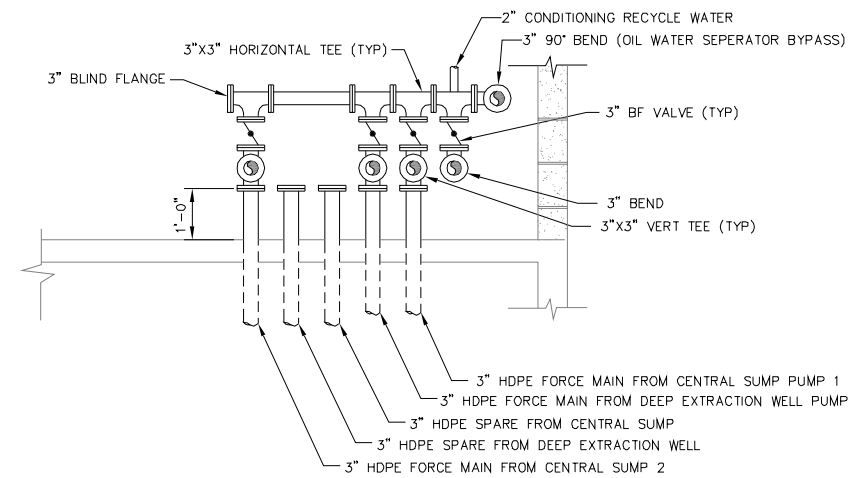
CHEMICAL INJECTION CORPORATION STOP DETAIL
 NTS



EMERGENCY SHOWER/EYEWASH DETAIL
 NTS



SECTION B-B'
 SCALE: 1/2"=1'-0"



SECTION A-A'
 SCALE: 1/2"=1'-0"

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	BBJ	3/2/07	90% CLIENT REVIEW

NIPSCO
 UPLAND REMEDIAL ACTION
 FORMER MGP SITE
 HAMMOND, INDIANA
 GWPTDS—MECHANICAL SECTIONS
 AND DETAILS

SME
 Consulting Engineers
Sevee & Maher Engineers, Inc.
 Cumberland Center, Maine

DESIGN BY: BBJ
DRAWN BY: MBISK
DATE: 8/2/07
CHECKED BY:
LMN: DETAILS
CTB: DETAILS
JOB NO. 07054 DWG FILE DETAILS M-300