

Soil Cover Modification Request and Materials Management Plan

**Central Park
(South Brearly Street to South Baldwin Street)
City of Madison
Dane County, Wisconsin**

Project I.D. 5992-01-95

March 2012

SOIL COVER MODIFICATION REQUEST AND MATERIALS MANAGEMENT PLAN

PROJECT I.D. 5992-01-95

**Proposed Central Park
(South Brearly Street to South Baldwin Street)
City of Madison
Dane County, Wisconsin**

**March 2012
MSA Project 373013**

**Prepared For:
The Wisconsin Department of Natural Resources
and
The City of Madison
Madison, WI**

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- Attachment A Figures and Exhibits
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- Attachment C Brearly Block Environmental Impacted Areas
- Attachment D Environmental Assessment Documentation Former RP Parcel at 204 S. Ingersoll
- Attachment E Photo Documentation

I. INTRODUCTION

This Soil Cover Modification Request and Materials Management Plan (MMP) summarizes the proposed activities and responses related to potentially contaminated soil and groundwater that may be encountered during the construction phase of the proposed Central Park (South Brearly Street to South Baldwin Street) project in the City of Madison, Dane County, Wisconsin (WisDOT project ID 5992-01-95).

MSA Professional Services Inc. (MSA) has prepared this MMP on behalf of the City of Madison for review and approval by the Wisconsin Department of Natural Resources (WDNR) Remediation and Redevelopment (RR) Program. The following describes the proposed project and the WDNR request for approval to modify the existing soil cap (BRRTS # 07-13-543256), as well as a request for approval to construct a clean soil cap for the Brearly Block portion of the project.

Central Park Project Description

The City of Madison proposes to create a new urban park on the near east side of the City to be called “Central Park”. Central Park lies on land roughly bounded by South Brearly Street on the west, East Wilson Street on the south, South Baldwin Street on the east, and Railroad Street and the Madison Gas & Electric Service rail line to the north of this park. Attachment A contains the Site Location Map (Figure 1).

The project Master Plan and grading plans are in Attachment A. The Proposed Central Park (i.e. the Project Area) includes City blocks referred to as the Brearly Block (i.e. South Brearly Street to South Ingersoll Street) and the Great Lawn area (i.e. the Ingersoll Block; South Ingersoll Street to South Baldwin Street) and are shown on the Master Plan in Attachment A. The park will be constructed in phases, and the first phase (i.e. Phase 1) of the project is shown outlined in red on the *Phase 1 Central Park* figure in Attachment A.

The first phase of the project (refer to the Phase 1 Central Park figure in Attachment A) will involve the Brearly Block and Ingersoll Block (a.k.a. the Great Lawn area). The Phase 1 project area will include approximately 5.7 acres of the park with a 2 acre green space, skate park, the Brearly Block improvements, and an at-grade bike/pedestrian path railroad crossing of the Wisconsin Southern Railroad at South Few Street (a.k.a the Gateway Plaza Area). Fencing will be part of this first phase to provide a strong safety component for park visitors.

A. Purpose and Scope

The Central Park project will have excavation greater than 2 feet in depth for park construction, and grading during construction. Some excavation greater than 2

feet is also anticipated for utility installation and replacement in several areas. In addition, trees are anticipated to be planted for landscaping purposes.

On behalf of the City of Madison, the following is requested from the WDNR:

- WDNR approval for modifications to the existing soil cap at the Ingersoll Block (i.e. the Great Lawn area). This is required in accordance with the current Soil Cover Maintenance Plan for 201 S. Ingersoll Street dated March 2006 for BRRTS # 07-13-543256. The existing Soil Cover Maintenance Plan for the 201 S. Ingersoll parcel, as well as other documentation related to the BRRTS files at this address are located in Attachment B.
- WDNR approval for incorporating a 2 ft. clean soil cap over properties in the Brearly Block. These properties include the former Research Products (RP) property at 204 S. Ingersoll Street and the former Byrns Oil parcel at 211/215 S. Brearly Street. Both properties are currently owned by the City of Madison and are included in the Central Park project. The former Byrns Oil parcel is an “open” LUST site (BRRTS 03-13-001971) and has had remedial activities performed since tank removal in 1971 and 1988. In addition to the petroleum concerns at the former Byrns Oil site, surface soil concerns on the Brearly Block are related to PAH and metals. The most recent remediation activities include excavation of 695.22 tons of petroleum contaminated soil performed in August 2011 at the Bryns Oil site. Documentation related to the BRRTS file at 211 S. Brearly Street and the former RP parcel is enclosed in Attachments C and D.
- WDNR approval of the MMP activities to manage soil and groundwater during the construction phase.

The MMP outlines the proposed actions to properly manage identified soil and groundwater impacts (if dewatering is necessary) during redevelopment of the Project Area. Management of impacted soils and groundwater will be completed in accordance with the criteria described in this MMP, and approved by the WDNR. The MMP also contains a Construction Contingency Plan, which has been developed to identify and manage any impacted areas of the Project Area discovered during construction and redevelopment. Additionally, in the event dewatering is necessary, areas of impacted groundwater will be managed in accordance with this MMP. This MMP includes:

- A description of the work to be completed;
- Information concerning the proposed redevelopment of the Project Area;
- A description of known contaminants at the Project Area;

- The names and responsibilities of companies and individuals presently involved in the proposed redevelopment of the Project Area and/or implementation of this MMP;
- A description of methods to be used to segregate impacted soil from non-impacted soil at the Project Area;
- A description of soil-management procedures to be followed in order to facilitate the proper disposition of any impacted soil removed from the Project Area;
- A description of groundwater management procedures to be followed in order to facilitate the proper disposal of any impacted groundwater discharged from the Project Area; and,
- A description of the site safety responsibilities and contingency actions to be implemented if necessary, at the Project Area.

B. Environmental Concerns and Previous Environmental Investigations

An environmental review has been performed for the entire Project Area and the various environmental assessments are described in Section C. Based on the environmental review, the existing City park parcel at 201 South Ingersoll Street (i.e. the proposed Great Lawn area) and two parcels in the Brearly Block (i.e. former RP parcel at 204 S. Ingersoll and former Byrns Oil at 215 S. Brearly) have documented residual soil and groundwater contamination that will need to be addressed during construction of the project.

The following summarizes the specific environmental concerns in the Project Area:

201 South Ingersoll Street: Existing City Park Parcel (Great Lawn)

- The parcel at 201 South Ingersoll Street (i.e. City of Madison Farwell Park, BRRTS 07-13-543703)) is a closed WDNR Environmental Repair Program (ERP BRRTS 02-13-227102) site and a closed LUST site (Johnson Property BRRTS 03-13-000292). This parcel has residual contaminated soil and groundwater, with an engineered soil cap and cap maintenance requirement. The land use controls imposed at site closure by the WDNR include a soil cap maintenance requirement over the residual contaminated area. This requires notification of proposed construction and approval by the WDNR to satisfy the site closure requirements.

211-215 South Brearly Street: Former Byrns Oil

- This parcel is an open LUST site (former Byrns Oil BRRTS 03-13-001971) with petroleum soil and groundwater contamination. Petroleum contamination remediation to achieve site closeout has been on-going with a completed soil excavation in August 2011. To date, the WDNR-approved

closure request has not been submitted to WDNR and monitoring wells remain on the property. As the parcel is included in the final park design, an approved soil cap is requested for this parcel to address any residual soil concerns.

204 South Ingersoll Street: Research Products Corporation

- A Phase 2 Environmental Site Assessment performed in July 2011 for property transfer purposes detected some fill materials including suspected foundry sand. The results were consistent with testing on other properties in the project area and included residual groundwater and soil detections. A clean soil cap over the fill materials to address direct contact concerns related to PAH and metals is proposed on this parcel in the Brearly Block.

Previous Environmental Investigations

Previous environmental investigations performed in the Project Area were reviewed for developing the MMP. The reviewed environmental reports included:

- Phase 1 Hazardous Materials Assessment (MSA March 2010 and February 2012), Proposed Central Park (South Brearly Street to South Baldwin Street). This Phase 1 HMA was performed over the entire project area according to WisDOT Facility Design Manual (FDM) requirements. The Phase 1 HMA identified potential environmental concerns in the entire project area from S. Brearly Street to S. Baldwin Street, and included WDNR BRRTS file reviews for the files in the Project Area.
- Phase 2 Subsurface Investigation (MSA August 2010), Central Park, City of Madison. This Phase 2 documented subsurface investigations performed in the S. Ingersoll to S. Baldwin Street project area. This included areas with proposed retaining walls and to develop a Materials Handling Plan and Special Contract Provisions for the design and construction for the Great Lawn area of the Park.
- Phase 1 Environmental Site Assessment Report (BT Squared, August 24, 2010), Central Park Skate, LLC Property (Former Byrns Property, 211-215 S. Brearly Street, Madison, WI. This Phase 1 ESA documented an environmental review of the one parcel of land located at 211-215 S. Brearly Street (former Byrns Oil Site).
- Phase 1 Environmental Site Assessment Report (MSA June 2011), Research Products Corporation, 204 and 210 South Ingersoll Street, Madison, WI. This Phase 1 ESA documented an environmental review of the parcel of land

located at 204 S. Ingersoll Street which was performed for the City of Madison for property transfer purposes.

- Phase II Environmental Site Assessment Report (MSA July 2011), Research Products (RP) Corporation, 204 and 210 South Ingersoll Street, Madison, WI. This report documented a Phase II environmental investigation with 8 soil borings and soil and groundwater testing at 204 S. Ingersoll Street. The assessment was performed for the City of Madison prior to acquisition of the RP property.

II. **SUBSURFACE CONDITIONS AND MATERIALS MANAGEMENT PLAN**

The following describes the characteristics of the Project Area and the identified environmental conditions on the specific parcels. The Project Area and proposed development and grading plans are shown on the figures in Attachment A.

A. **Site Responsibilities**

Present Owner(s): Ingersoll Block (i.e the Great Lawn Area)
Brearily Block (former Byrns Oil and RP parcels)

City of Madison
210 Martin Luther King Jr. Blvd
Madison, Wisconsin 53703
Contact: Janet Dailey, P.E.
Project Engineer
608-267-1986

Engineering Consultant: MSA Professional Services, Inc.
2901 International Lane, Suite 300
Madison, WI 53704-3133
Contacts: Mike Statz, P.E., Project Manager
(608) 242-7779

Prospective General To Be Determined
Contractor:

Excavation To Be Determined
Contractor:

WDNR, Remediation and Mike Schmoller
Redevelopment Program: WDNR
South Central Region

3910 Fish Hatchery Rd.
Fitchburg, WI 53711
608-275-3310

B. Summary of Subsurface Conditions

In the Project Area, there are two former petroleum bulk plants, one located at the Ingersoll Block (i.e. the Great Lawn Area), and the other at the former Byrns Oil property in the Brearly Block. The Ingersoll Block site is a closed LUST with an existing soil cap requirement and the former Byrns Oil site is an “open” LUST that has a recently completed remedial excavation. Both of these sites have petroleum impacts to soils that are potentially above WDNR action levels, although both site have had significant remediation performed. In addition, some areas may have detectable PAH and metals related to the historic fill that has been placed on the two blocks (i.e. soil mixed with cinders, foundry sand, etc.) The areas with potential petroleum impacts are shown with more detail in the Attachments B, C, and D. Excavation may occur in these areas during construction in the project area and impacted soils maybe encountered. Prior to grading and/or excavation, the areas of known impacts will be located and surveyed so these areas can receive close attention during construction activities. Grading activities will be conducted to remove prior asphalt surfacing and remove excess soils, if any, to bring the Project Area to finish grade. Excavation and removal of abandoned underground utilities will be completed where necessary.

C. Proposed Materials Management Plan (MMP)

This MMP includes the activities that will be performed to construct the proposed project and address residual contaminated materials in the project area. The remediation activities are listed below and discussed in subsequent sections.

- Management of soils in the project area during the installation of any building footings, foundations, general site grading and utilities in areas of known soil contamination. This response action allows for the proper identification, soil capping, and, if needed, possible off-site disposal of impacted soils observed during redevelopment. This includes the excavation, field screening and stockpiling of soils from the former petroleum storage facilities in the Project Area. This may include the collection of samples from the excavated areas, and the analysis of stockpiled soils to determine disposal options for any stockpiled soils.
- Management of groundwater in the event that dewatering is necessary in the Project Area. This response action will identify the groundwater quality and disposal options.

- Field screening of soils observed during construction activities at known areas of impacts. Soils include, but are not limited to, those generated during site grading, footing excavations, utilities, and retention pond construction. Field screening of excavation bottom/sidewalls for evidence of impacts will also be conducted, based on field observations.

D. Remediation Goals

To ensure long-term protection of public health and the environment in regard to residual impacted areas, a new 2 ft thick clean soil cover will be constructed within the Project Area. This may include areas with petroleum contamination that have not been previously excavated or remediated during previous environmental remediation activities. Areas with soil contamination with compounds below regulatory action levels, or those that do not have regulatory action levels will also receive 2 ft thick clean soil cover in accordance with the proposed grading plan (refer to Attachment A). Groundwater remediation is not proposed due to the petroleum plume stability and the fact there are no known groundwater receptors present. Remediation by natural attenuation is expected for residual groundwater contamination.

E. Excavation, Field Screening, Stockpiling of Soils from Impacted Areas

Impacted soils related to the former petroleum bulk plants were previously remediated to the extent practical, or removed and disposed of off-site during remedial excavation activities. No other newly identified areas of impacted soils are known at this time, except for residual contamination associated with the two former bulk petroleum plants that may remain on the properties, and that discovered during the Phase 2 Environmental Assessment borings performed on the RP parcel at 204 Ingersoll Street.

Based on the Phase 2 ESA results, these impacts are considered to be associated with the residual historic contamination associated with fill materials in this area of Madison (i.e. historically, the entire block has been filled to grade with soil, lesser amounts of cinders, foundry sand, etc.). It is anticipated that the only soil remediation may come from possible impacted soils encountered during utility or possibly building foundation excavations. These soils within building footprints and utility excavations may be excavated to depths approximately 4 to 8 feet below ground surface (bgs). Based on the proposed location of the building footprint in relation to the former petroleum bulk plant areas, footing excavations will likely not encounter contaminated soils with residual soil impacts. The actual areas excavated will be determined by the proposed footing locations the utility install locations, and if field screening and confirmation sampling results are

collected. It is anticipated the grading will utilize track excavators, dozers or other excavation equipment to remove the soils.

During excavation activities at residual impacted areas (i.e former bulk plant areas basins), an Environmental Technician will be on-site to field screen soils, and observe soil management activities during construction. An environmental technician will be on call, on a daily basis when excavation activities are on-going at other parts of the development site. The excavation foreman, and excavating equipment operators will be informed to contact the Site Superintendent if any signs of contamination including visual staining, and/or petroleum/chemical odors are observed. The Site Superintendent will also be notified if debris including drums, paint cans, vessels containing unknown solids or free liquids, and possible asbestos containing materials (ACM) are encountered. If debris or impacts are encountered, excavation activities in that area shall cease and the Site Superintendent will be notified immediately. The Site Superintendent will then immediately notify the Project Manager and/or Field Technician and apprise them of the situation. The area will be taped off and no further construction activities are to resume in the area until the Field Technician can visit the Project Area, evaluate the discovery, and has given the notice to proceed.

A daily activities log will be provided by the Environmental Technician to both the Project Manager and the Site Superintendent. The daily log will include, but is not limited to, field screening results; locations of potentially impacted soils, with quantities; stockpile designations; locations of samples collected for laboratory analysis; notations about soils disposed off-site; and, any air monitoring reading results.

Soil samples will be screened in the field by the on-site Environmental Technician for debris, staining and/or olfactory evidence of environmental contamination. Soil samples will also be field screened for the presence of organic vapors using a photoionization detector (PID). A quart-size polyethylene freezer bag will be filled approximately ½ full of the sample to be analyzed. Soil clumps will be broken and the bag shaken for approximately 15 seconds. After allowing the headspace to develop for approximately 10 minutes, each field screening sample will be analyzed using the PID. The highest headspace reading measured from each soil sample will be recorded in the field log by the on-site Environmental Technician.

Excess soils (i.e. those not used to establish grade below the constructed soil cap) exhibiting readily apparent environmental contamination, as determined by field screening techniques identified above, will be evaluated for disposal or on-site stockpiling for later disposal.

During excavation of impacted soils, the Environmental Technician will collect soil samples for field screening at intervals of one sample for approximately every 10 cubic yards (cy) of soil excavated or if field screening observations warrant more frequent sampling.

Soils will be placed into temporary stockpiles of no more than 100 cy each. Stockpiles will be placed on and covered with minimum 10-mil thickness poly sheeting until the final disposition of the materials is determined and the soils and/or wastes are either transported off-site or reused on-site depending on laboratory analytical results. The stockpile area will be selected based on mass grading plans and in a location that is not prone to stormwater pooling.

F. Confirmation Sample Collection and Analysis of Excavated Areas

If field screening of impacted areas suggests impacted soils will be excavated and relocated to a stockpile area, confirmation samples will be collected from the excavated areas (i.e. the floor and side walls of the excavation) to characterize the soil.

Samples from each sampling location will be placed in laboratory approved containers with Teflon lined septa and required preservatives added, if necessary. The transportation and possession of the samples will be recorded on a chain-of-custody form from time of collection until delivery to a WDNR certified laboratory. All jars will be kept on ice until delivered to the laboratory.

G. Sample Collection and Disposal of Stockpiled Soils

Soils deemed impacted by field screening from the project area will be re-used on-site, if possible. If material is unacceptable for re-use, disposal at an approved landfill location may be necessary. If additional soil impacts, outside the known impact area are encountered during Site development, soils will be segregated, stockpiled and sampling for laboratory analysis will be completed. Disposal of stockpiled soils will be determined by the results of the analytical testing.

Excess soils deemed impacted by field screening results and confirmation sampling will be disposed at an approved landfill location, likely the Dane County Landfill or the Mad Prairie Landfill located in Madison and Sun Prairie, Wisconsin.

H. Screening of Soils Outside of the Known Impacted Areas

During excavation and/or grading of areas without known evidence of impacts, an environmental technician will be on-call in the event that items of environmental

concern are identified (see **Section III** for the Construction Contingency Plan and Action Levels). If an area of environmental concern is identified, all grading/excavation activities will stop in the area until the on-site environmental technician can determine the proper response actions.

If additional soil impacts from areas outside the known impacted areas are discovered during site development, sample collection and analysis of stockpiled soils will follow the analytical requirements and protocols required by the licensed off-site disposal facility.

I. On-site Soil Re-use

The following screening procedures will be used as a guideline for soils reused in the Project Area.

1. Soils displaced without visual or olfactory evidence of contamination or field screening results below 10 ppm organic vapors, as determined by headspace analysis techniques using the PID, may be used as general fill at the discretion of the general contractor and the geotechnical engineer.
2. Soils that are displaced exhibiting field screening results of greater than 10 ppm and less than (<) 200 ppm organic vapors, as determined by headspace analysis techniques using the PID, may be utilized as backfill beneath the clean soil cover and paved parking areas in the project area.

Soils that are displaced exhibiting field screening results of 200 ppm or greater organic vapors, as determined by headspace analysis techniques using the PID, will either remain in-place and covered by at least 2-feet of clean fill, will be segregated and stockpiled, for disposal at an approved landfill. Soils being submitted to a landfill will be profiled based on the laboratory requirements and historical sampling. Additional characterization of soil being disposed of at a landfill maybe required by the landfill, or if unknown or unexpected impacts are identified during the field screening.

3. Upon excavation of soil areas exceeding 200 ppm organic vapors, as determined by headspace analysis techniques using the PID, the excavation sidewalls and base will have soil samples collected and laboratory analyzed for the appropriate parameters, such as PAH, PVOCs and / or VOCs, and RCRA metals.

J. Groundwater Remediation / Treatment

Groundwater in the project area has been observed at depths of approximately 2 feet to 10 feet bgs. The redevelopment activities proposed in the project area (i.e. excavation for footings, utilities, etc.) may extend to groundwater in some areas.

During the environmental investigations, petroleum compounds and PAH compounds were detected in some locations of the Project Area. Groundwater collected from soil borings in other locations did not detected contamination. It is anticipated that some residual groundwater contamination remains in the area of the former petroleum bulk plant on both blocks.

If dewatering is necessary from locations with groundwater contamination, the project will obtain a temporary permit to discharge to the Madison municipal sanitary sewer treatment facility. The water discharge to the sanitary sewer system will be sampled and analyzed in accordance with the municipal sanitary sewer treatment facility permit requirements.

K. Export of Soils

In the event that export of soil is necessary from areas without readily apparent impacts (i.e. no staining, debris, odors or headspace readings above background levels), prior to export, the soils will be analyzed for PVOCs, VOCs, PAH and RCRA metals at a rate of one sample per 1,000 cubic yards. If the analytical information does not detectable concentrations for the analyzed parameters, the analytical information will be provided to the recipient of the export soils for approval prior shipment of the soils. If there are detections of parameters of concern, the soils will either be disposed at a permitted disposal facility, or reused on site if they meet reuse criteria.

L. Stormwater Ponds

Areas where stormwater ponds will be constructed will require excavation. If ponds are constructed in areas of contamination, soils will be stockpiled and sampled as discussed in Sections F and G. Bottom and sidewall samples will be collected to confirm soil conditions. Unlined stormwater detention ponds will be constructed in areas where no debris or impacts remain. Stormwater detention ponds constructed over areas of remaining debris and/or residual contamination will be lined.

Liner materials will consist of either compacted clay or a synthetic liner with a 1 foot sand cushion placed underneath. An alternative pond liner system will also

be considered for installation in the ponds. A typical system consists of a tray and piping system built within a sand drainage layer, underlain by a synthetic liner.

III. SITE SAFETY AND CONSTRUCTION CONTINGENCY PLAN

A. Site Safety

A Site Safety Plan will be prepared for use on-site by personnel during redevelopment activities. The Site Safety Plan will provide a hazard assessment based on existing soil analytical data and will specify general work and monitoring procedures to be utilized to minimize safety incidents. Safety equipment, decontamination procedures, site control and emergency contacts will also be included. Both public and private utilities at the Site will be located by the excavation contractor during subsurface field activities. All subcontractors and general contractors will be responsible for preparation of their task related site safety plans for their respective employees.

B. Construction Contingency Plan

In the event that unanticipated impacts are noted during construction, the actions discussed in this section will be implemented. Workers will be advised to be observant and on the lookout for signs that impacted materials have been encountered or unearthed. Those signs may include:

- USTs associated with heating oil;
- Strong or unusual chemical odors;
- Obvious physical signs of industrial or other wastes, including ash, cinders, tars, sludges, powders, resins, liquids or containers (i.e. drums, pails, etc.);
- Unlabelled drums or containers;
- Buried metal objects such as tanks and ground water production wells;
- Above ground metal objects such as vent pipes;
- Buried building materials that may contain asbestos containing materials (ACM); and
- Co-workers who suddenly become ill while working in the project area.

The following protocols will be followed in any situation where impacted materials are encountered that were not anticipated and which may pose a significant hazard to human health and/or the environment:

1. Work in the area where the waste/impacts are encountered will be stopped immediately, the area secured, and the General Contractor Project Manager and Project Manager notified to assemble a response team and arrange for a preliminary inspection and assessment of the situation.

2. Necessary steps will be taken to initiate an emergency response, if warranted, and to stabilize the situation to the extent possible.
3. If appropriate the WDNR will be contacted to determine if any additional steps are necessary to properly manage the impacts encountered. If requested, a brief plan will be submitted to the WDNR Project Manager for review and approval to document the proper management of the impacted media.
4. The impacted media will be managed in accordance with the applicable WDNR-approved plan.

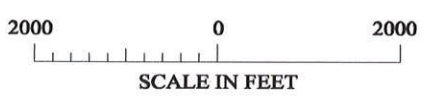
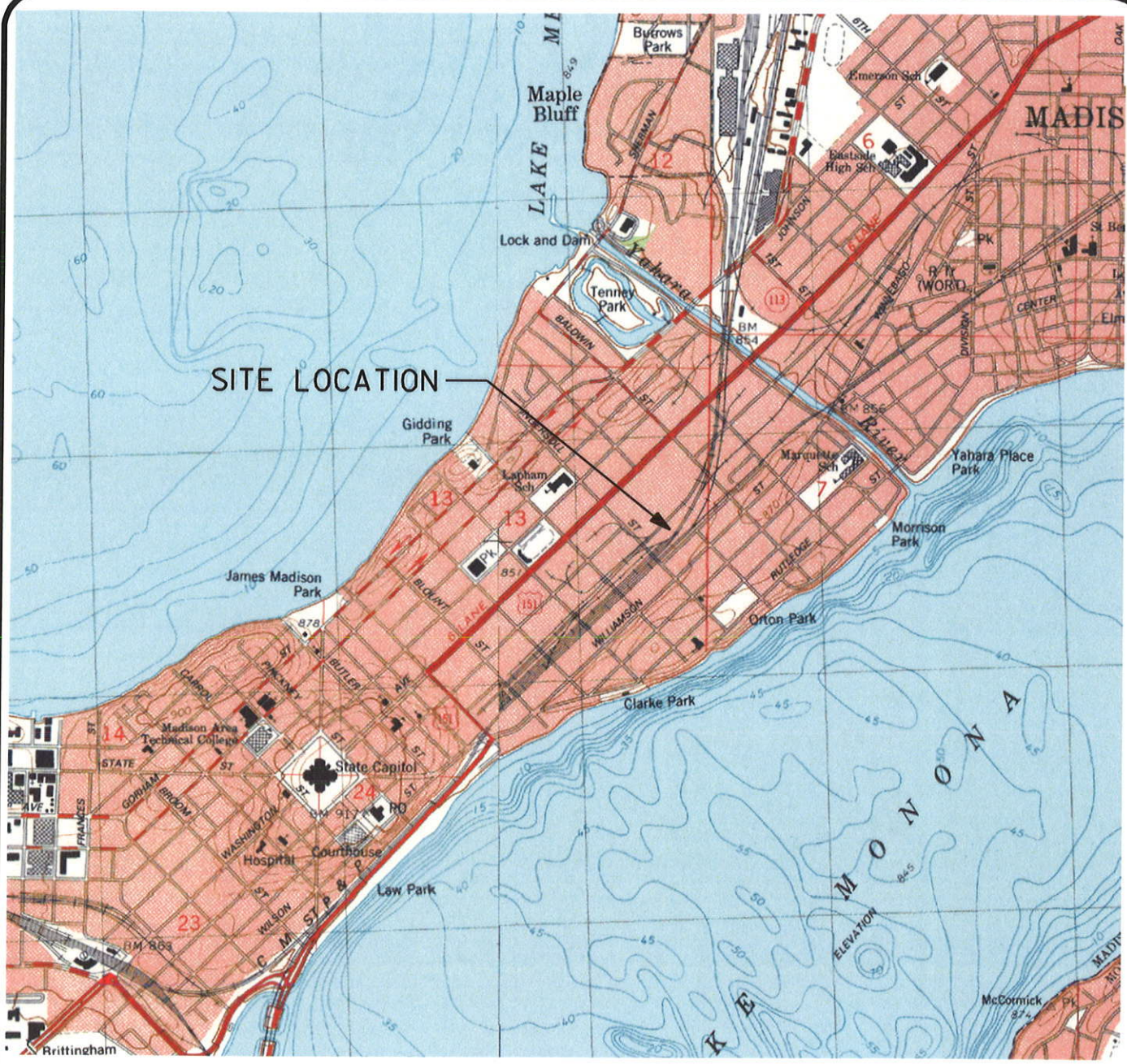
IV. CONCLUSIONS

MSA has prepared this MMP on behalf of the City of Madison, for review and approval by the WDNR RR Program. Upon completion of the construction activities in the Project Area, a Documentation Report will be submitted to the WDNR RR Program documenting that the proposed soil cap was constructed in accordance with the approved MMP.

Attachment A

Figures and Exhibits

Figure 1: Topographic Map
Figure 2: Project Location Map
Master Plan Central Park
Phase 1 Central Park
Brearly Block: Landscape Forms Diagram
Brearly Block: Grading Plan
Central Park Parcels and Addresses



Madison West & East Quadrangle
Wisconsin - Dane County
7.5 Minute Series (Topographic)

Contour Interval 10 Feet
 1983

FIGURE 1
SITE LOCATION MAP
 201 South Ingersoll St.
 Madison, WI



TRANSPORTATION • MUNICIPAL
 DEVELOPMENT • ENVIRONMENTAL
 301 West First Street, Duluth, MN 55802
 218-722-3915 1-800-777-7380 Fax: 218-722-4548
 MSA PROFESSIONAL SERVICES

FILES

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PROJECT LOCATION MAP

PROJECT I.D. 5992-01-95

CENTRAL PARK

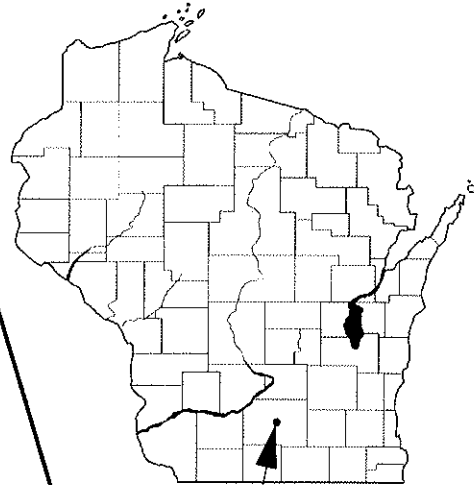
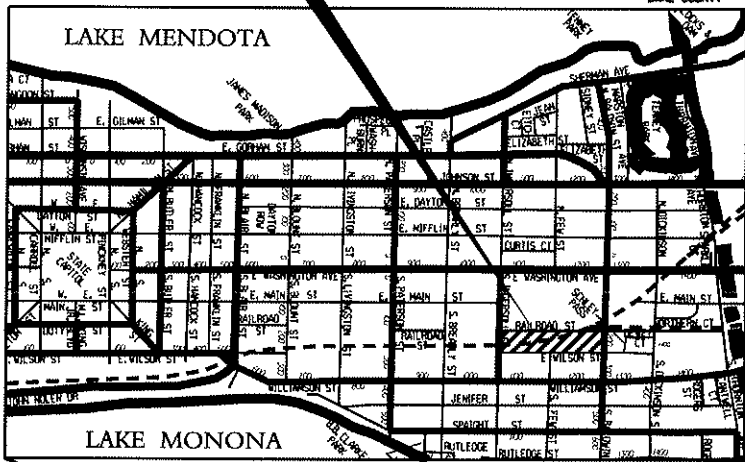
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DANE COUNTY

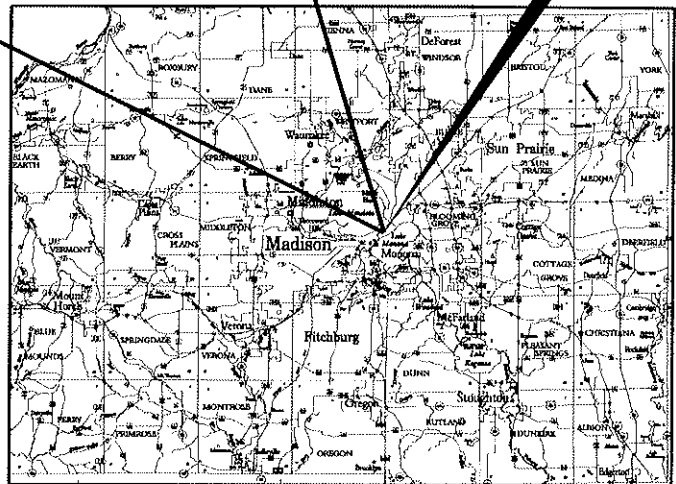
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PROJECT LOCATION



PROJECT LOCATION
CITY OF MADISON
DANE COUNTY

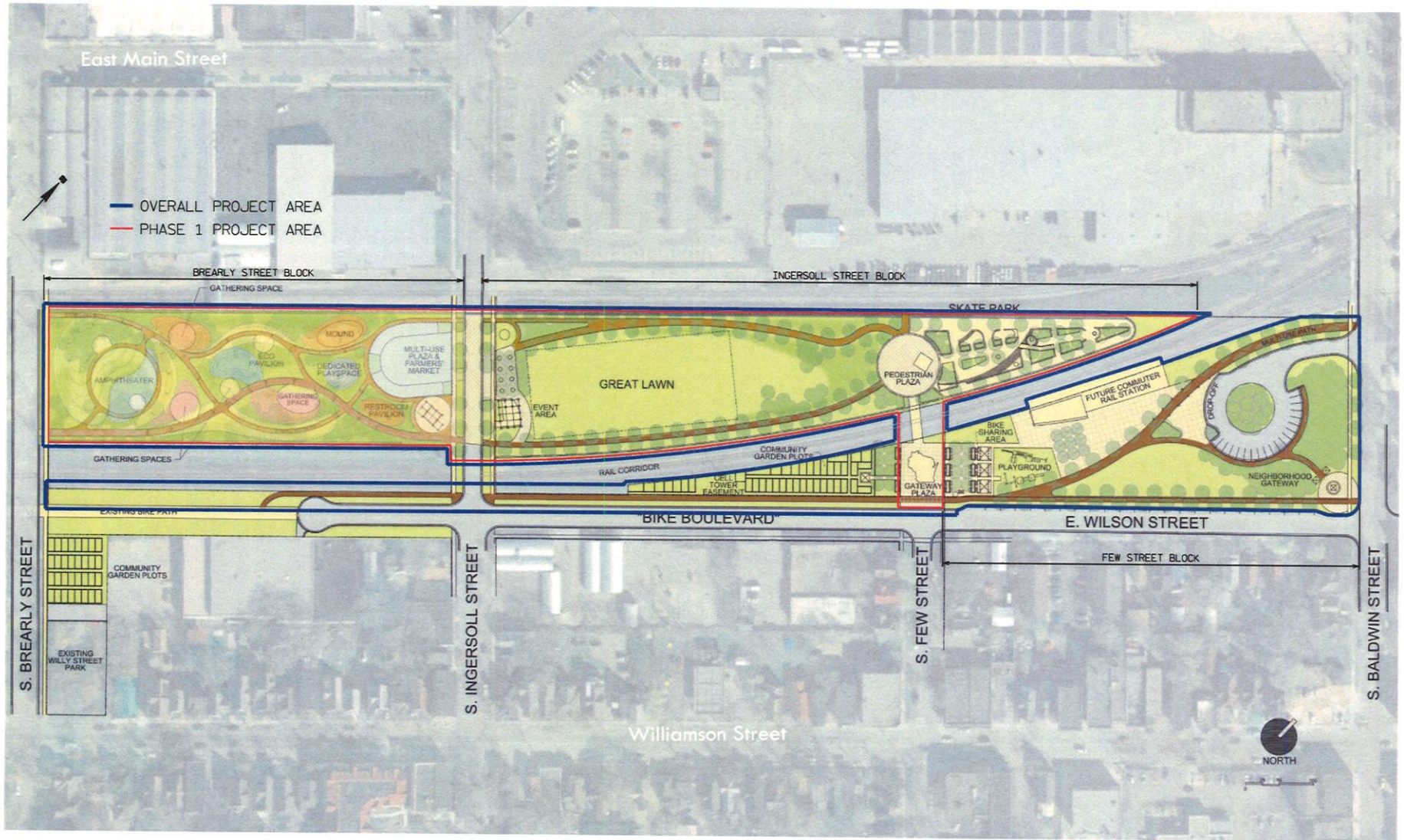


MSA

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CAD MAPS PRODUCED BY
MSA PROFESSIONAL SERVICES, INC.



Master Plan Central Park

June 1st, 2011

MSA

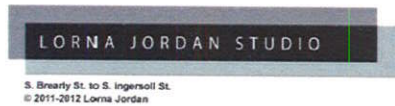
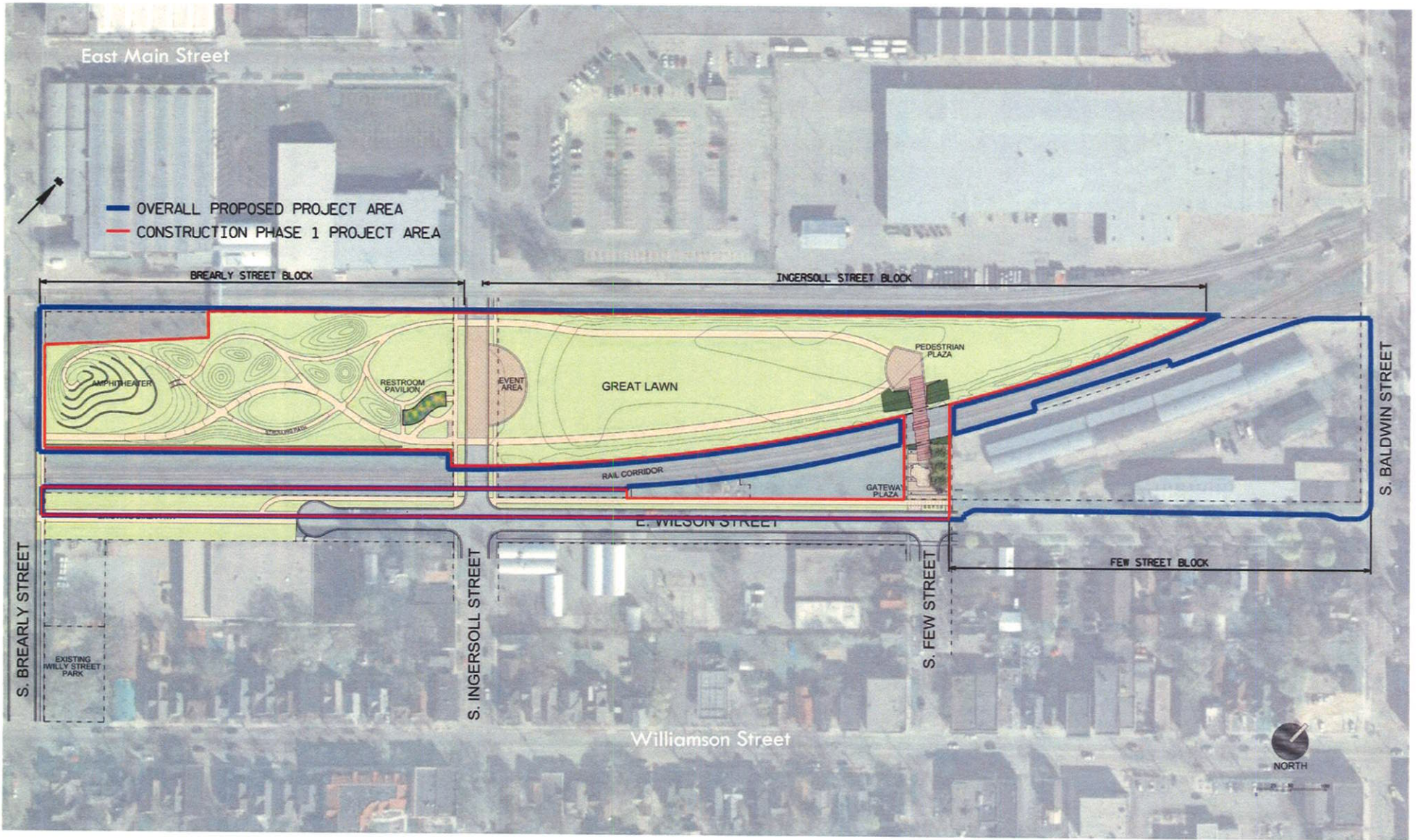
PROFESSIONAL SERVICES



LORNA JORDAN STUDIO



This project is supported in part by an award from the National Endowment for the Arts.

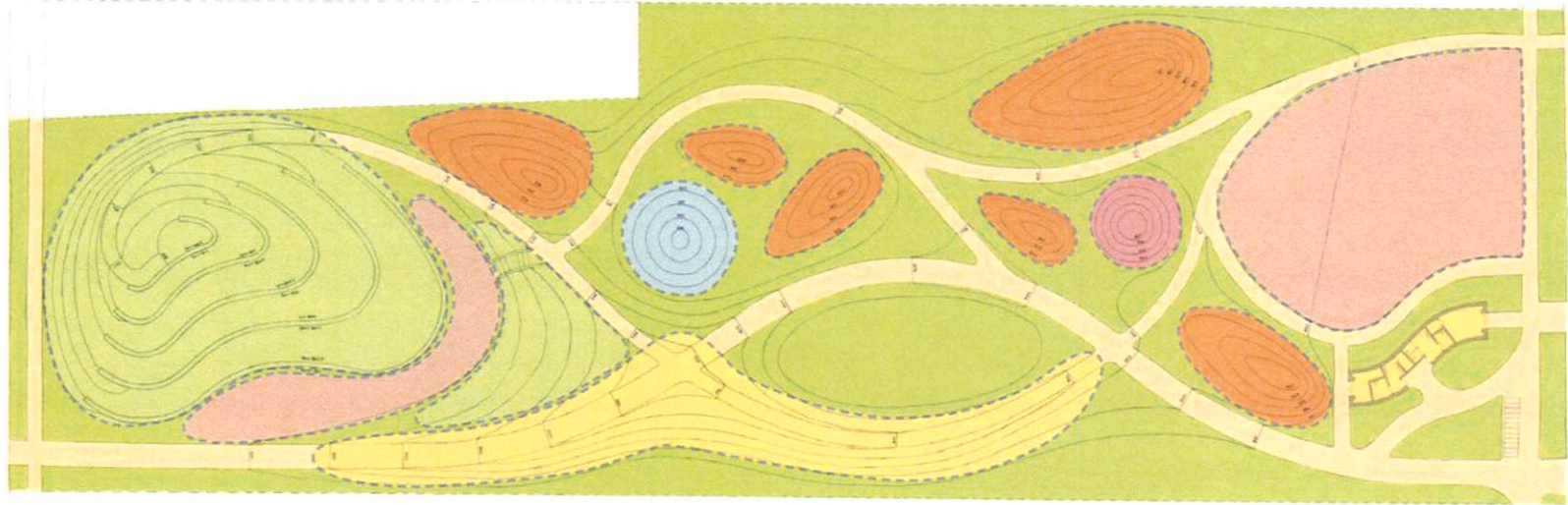


Phase I Central Park

January 31st, 2012



This project is supported in part by an award from the National Endowment for the Arts.

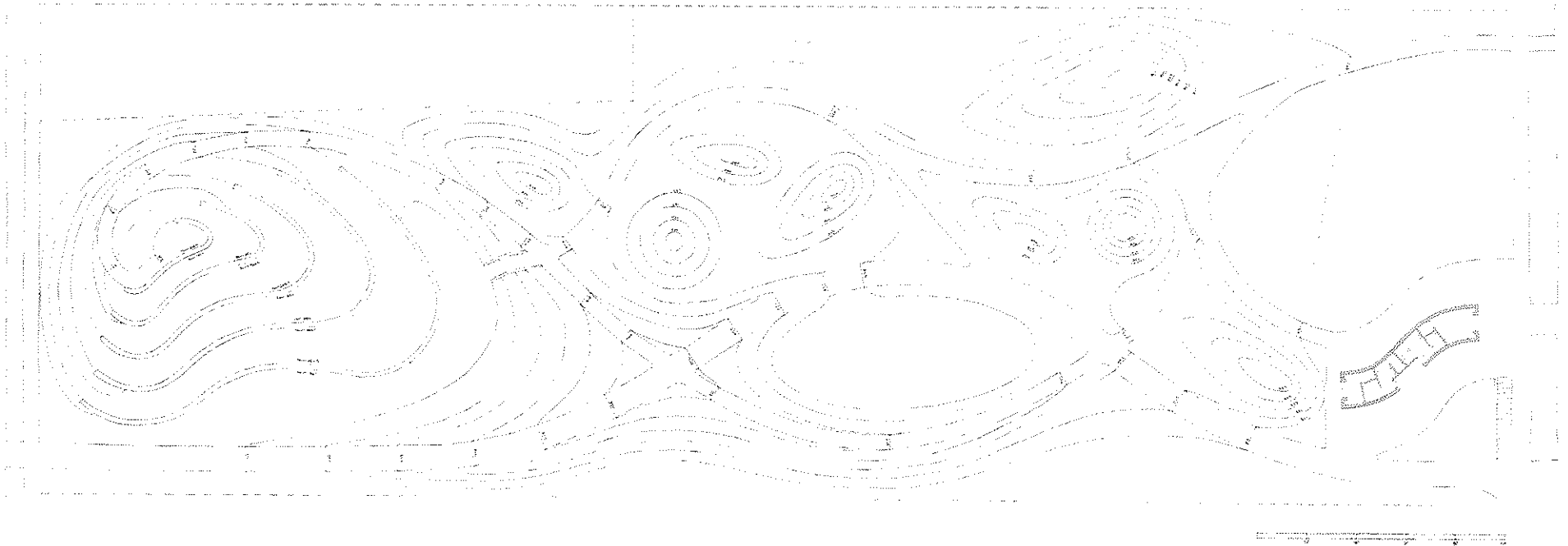


KEY: Inspiration for Earthworks—Glaciated Landscape Forms

- Ground Moraine
- Glacier & Moraines (Ground & Terminal)
- Glacial Lake Bottom
- Drumlin
- Esker
- Kettle
- Kame

Central Park
Brearly Block
 Preliminary Design Development
 Landscape Forms Diagram
NOT FOR CONSTRUCTION
 © 2011-2012 Lorna Jordan
 February 1, 2012

Brearly Block—Glaciation as Inspiration for Earthworks & Building
 © 2011-2012 Lorna Jordan



Central Park

Breary Block

DRAFT—Preliminary Design Development

Grading Plan

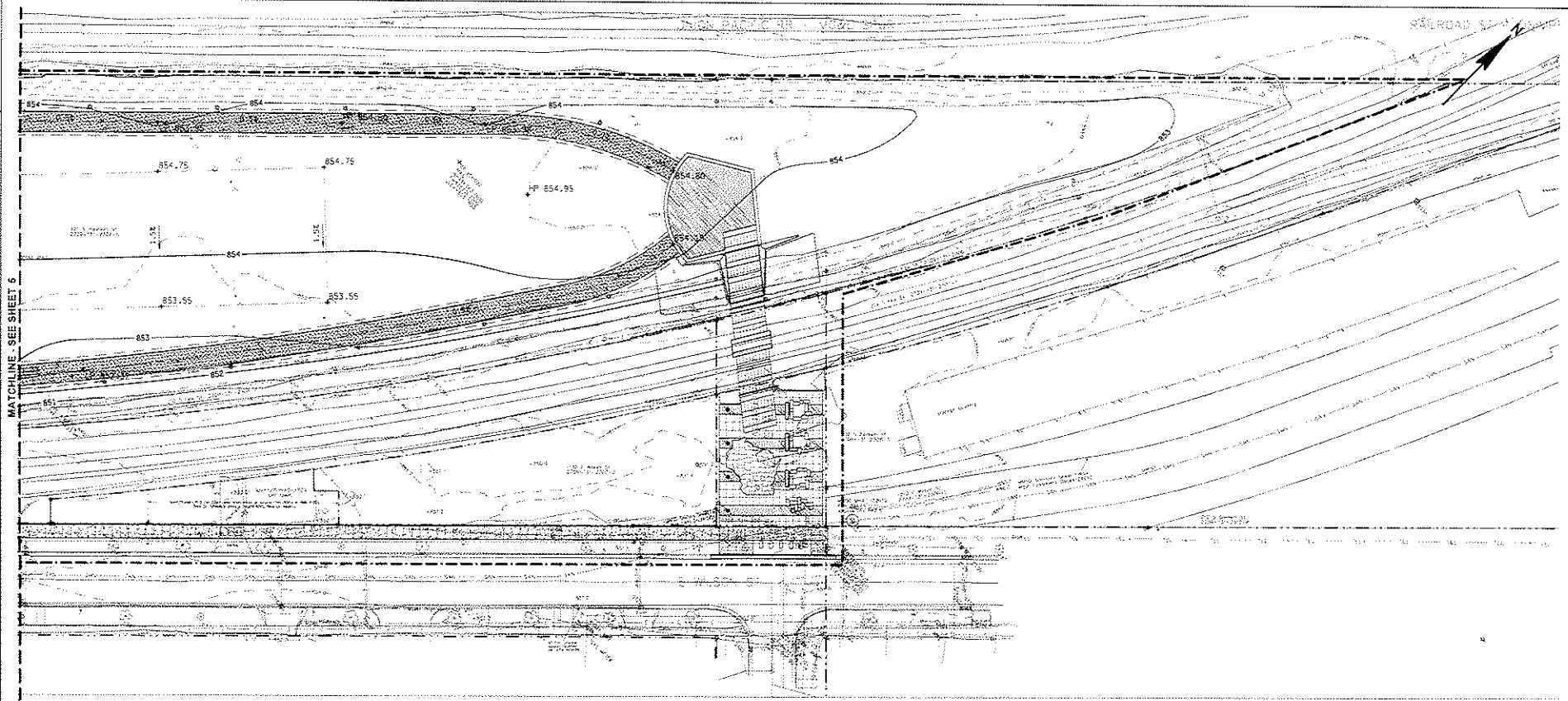
NOT FOR CONSTRUCTION

© 2011 Lorna Jordan

January 10, 2012

2

2



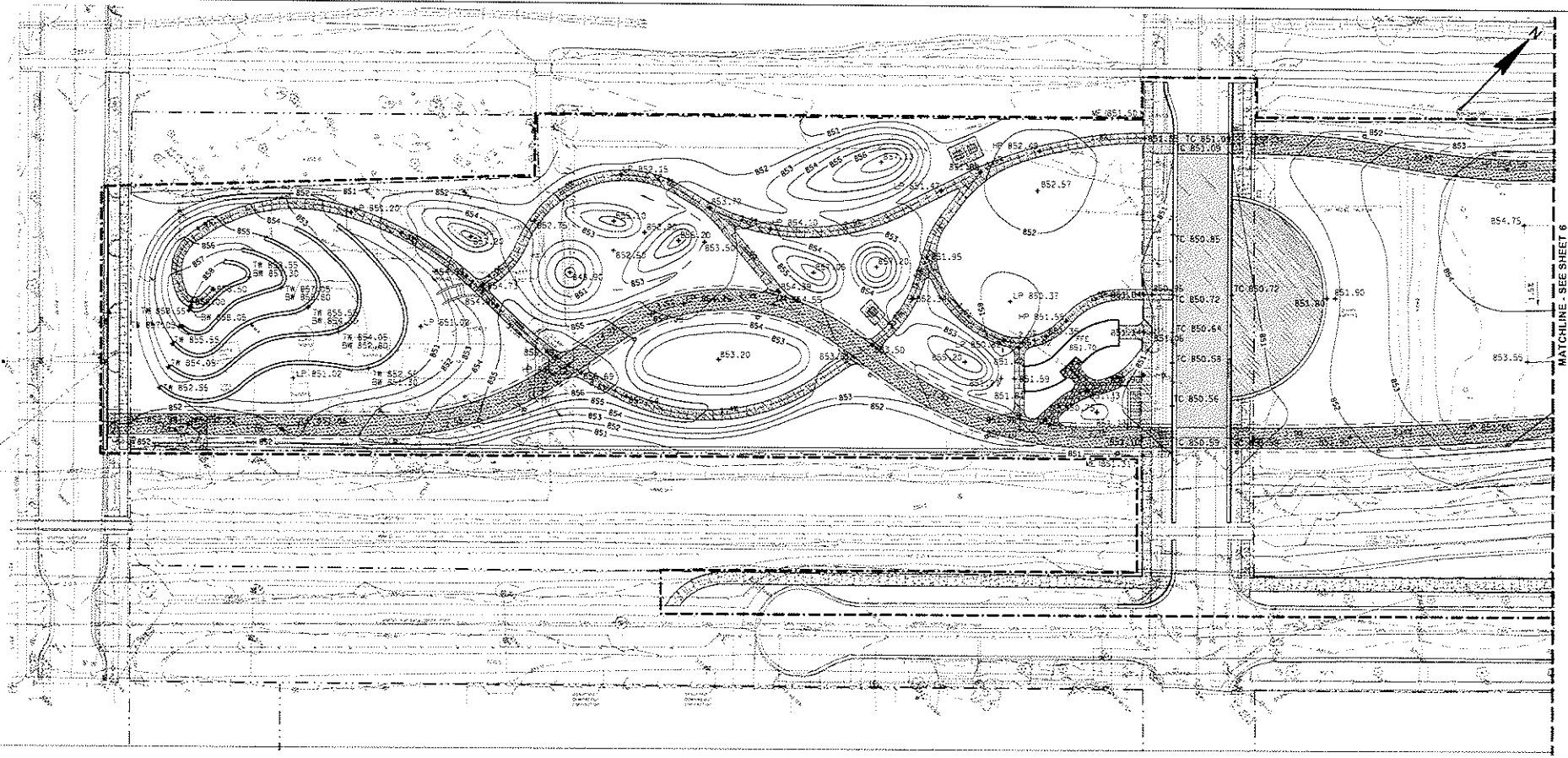
- LEGEND**
- PROJECT LIMITS
 - PROPERTY LINE
 - PROPOSED INDEX CONTOUR
 - PROPOSED INTERMEDIATE CONTOUR
 - SWALE CENTERLINE
 - PATH SHOULDER
 - +851.90 PROPOSED SPOT ELEVATION
 - +TR 851.30 TOP OF WALL ELEVATION
 - +SR 851.20 BOTTOM OF WALL ELEVATION
 - +LP 851.10 LOW POINT ELEVATION
 - +HP 851.00 HIGH POINT ELEVATION
 - +VE 851.00 MATCH EXISTING ELEVATION/FIELD VERIFY
 - +FFE 851.00 FINISH FLOOR ELEVATION

- NOTES**
1. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE AND APPROPRIATE UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO ANY CONSTRUCTION.
 2. HORIZONTAL DATUM IS DANE COUNTY COORDINATES, U.S. SURVEY FEET, NAD83(2007).
 3. VERTICAL DATUM IS NAVD83, PRE-2007 ADJUSTMENT.



PROJECT NO: 5992-01-96	HWY: NON HIGHWAY	COUNTY: DANE	GRADING PLAN
SHEET			E

FILE NAME : P:\S0134\003\CADD\SHEET\S0134-GRAD.DWG PLOT DATE : PLOT BY : JLR PLOT NAME : PLOT SCALE : 1:30 WISDOT/CADD SHEET 42



MATCHLINE - SEE SHEET 6

- LEGEND**
- PROJECT LIMITS
 - PROPERTY LINE
 - 855 PROPOSED INDEX CONTOUR
 - 854 PROPOSED INTERMEDIATE CONTOUR
 - SWALE CENTERLINE
 - PATH SHOULDER
 - + 851.90 PROPOSED SPOT ELEVATION
 - +TW 851.90 TOP OF WALL ELEVATION
 - +BW 851.90 BOTTOM OF WALL ELEVATION
 - +LP 851.90 LOW POINT ELEVATION
 - +HP 851.90 HIGH POINT ELEVATION
 - +ME 851.90 MATCH EXISTING ELEVATION/FIELD VERIFY
 - +FFB 851.90 FINISH FLOOR ELEVATION

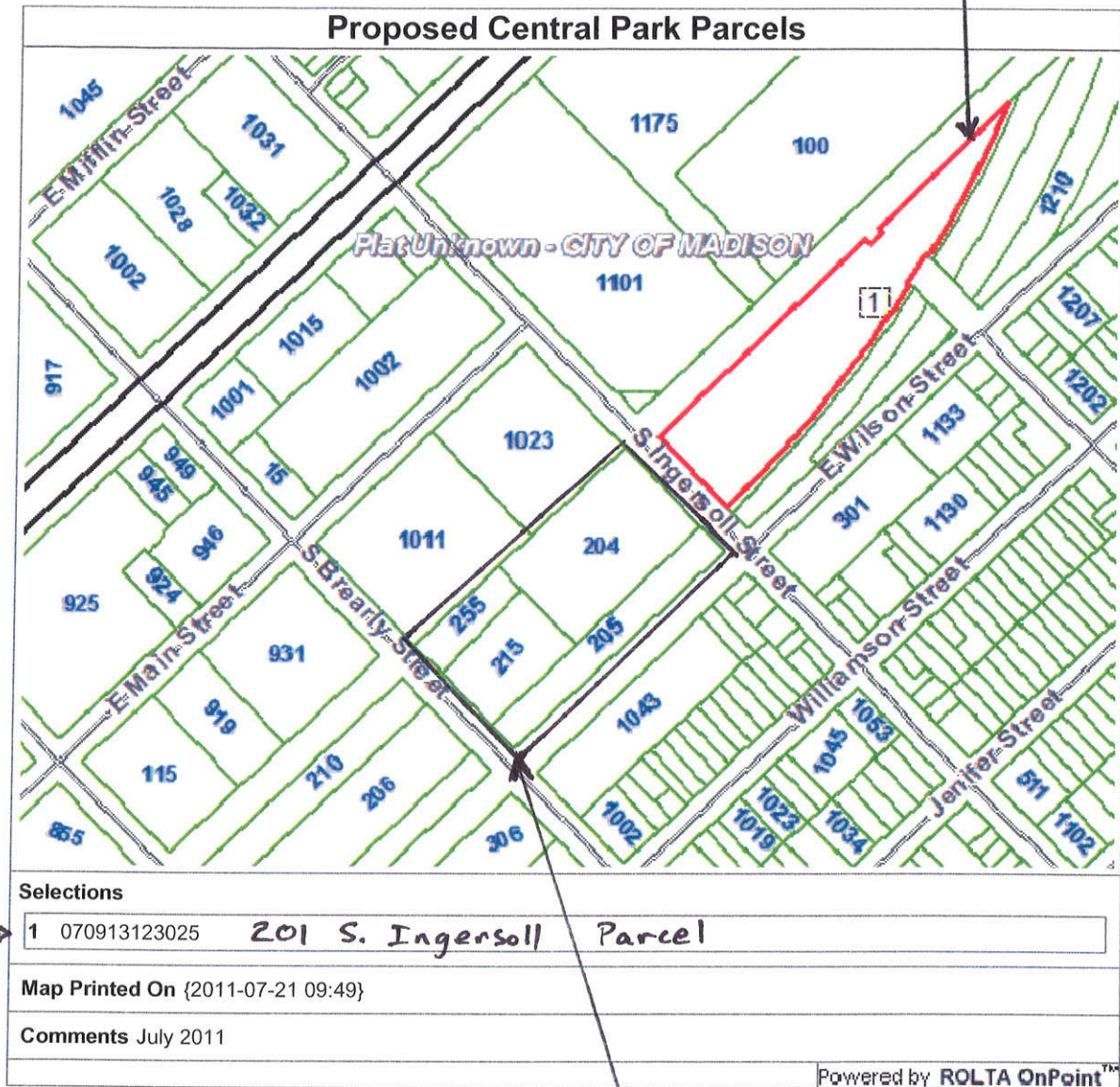
- NOTES**
1. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE AND APPROPRIATE UTILITY COMPANIES TO FIELD VERIFY UTILITIES PRIOR TO ANY CONSTRUCTION.
 2. HORIZONTAL DATUM IS DANE COUNTY COORDINATES, U.S. SURVEY FEET, NAD83(2007).
 3. VERTICAL DATUM IS NAVD83, PRE-2007 ADJUSTMENT.



PROJECT NO: 5992-01-96	HWY: NON HIGHWAY	COUNTY: DANE	GRADING PLAN	SHEET
------------------------	------------------	--------------	--------------	-------

FILE NAME : P:\50134\003\CADD\SHEET\50134-GRAD.DWG PLOT DATE : PLOT BY : UJR PLOT NAME : PLOT SCALE : 1:30 W:\SOOT\CADD\ SHEET 42

INGERSOLL BLOCK 'THE GREAT LAWN AREA'



IN RED →
OUTLINE

THE BREARLY BLOCK

NOTE:

215 BREARLY CONTAINS THE 211 BREARLY BRYN OIL SITE

204 S INGERSOLL IS THE FORMER RESEARCH PRODUCTS (RP) PARCEL

255 S. BREARLY IS THE UNION PACIFIC PARCEL

CURRENT CITY OF MADISON PARCEL ADDRESSES ARE SHOWN

Attachment B

Ingersoll Block and 201 S. Ingersoll Environmental Information

WisDOT Phase 1 Hazardous Materials Assessment Site Summary
(rev. 10/7/2005)

WisDOT Project ID: 5992-01-95
Highway/Street: Proposed Central Park
Termini/Limits: Brearly Street to Baldwin Street, City of Madison
County: Dane

Property Information:

Site Name(s): Farwell Park (former Johnson Property)
DOT parcel number (if known):
Property Address: 201 South Ingersoll
Owner's Name: City of Madison
Owner's Address: 215 Martin Luther King Blvd., Madison, WI 53701
Owner's Phone:
Current Land Use: city park
Past Land Use: Former Sinclair Refining bulk plant and also a culvert company

Real Estate Requirements: The City of Madison owns this parcel

- None Total take Strip acquisition of _____ feet
 Temporary Limited Easement (TLE)
 Permanent Limited Easement (PLE)
 Other (describe)

Construction Requirements:

- Excavation within current right of way to up to 5 feet (for retaining wall foundations)
 Excavation within proposed right of way to _____ feet
 Excavation within easement to _____ feet
 Public or private utility or sanitary or storm sewer installation or excavation to _____ feet

Information from database searches and interviews:

Department of Commerce (DCOMM)

- site has registered tanks ASTs USTs
 tanks are currently in use
 tanks are abandoned date: 9/7/88

Tank contents:

- Leaded gasoline Unleaded gasoline Fuel Oil Diesel
 Kerosene Unknown Other (describe)

site is a DCOMM administered LUST site; DCOMM ID number:

site is a closed DCOMM LUST site; closure date:

Department of Natural Resources (DNR)

- site is a DNR administered LUST site; BRRTS number: 03-13-000292
 site is a DNR administered ERP site; BRRTS number: 02-13-227102 and 02-13546624
 site is a closed LUST ERP site; closure date: 1/10/97 and 11/8/99 and 6/20/06
 site is a landfill
 site is an abandoned waste disposal site
 site is a hazardous waste generator
 Other (please describe)

Sanborn Maps: site is a petroleum bulk plant on map dated 1951. Comments:

WisDOT historic plan sets: site is a _____ on project _____ dated _____. Comments:

Business directories: site is a _____ in the directory dated _____. Comments:

Aerial photos: site is a _____ on photo dated _____. Comments:

Contamination discovered at 2-4 feet during utility or other excavation in the area. Indicate location on site map.

Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)

No evidence of tanks

USTs ASTs Location, number and condition of tanks, contents, comments:

Location in relationship to current right of way: map attached

Location in relationship to proposed right of way: map attached

Drums Stained soils Odor Sheen on surface water Areas of excavation

Areas of fill Stressed vegetation Pond(s) Basins/sumps Monitoring wells

Soil borings

Comments: Residual soil contamination is present, contaminated soil was excavated, property has a cap maintenance agreement

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).

Property is a potential source of contamination

Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.

Contaminated soil known to be within proposed right of way from 4 feet below ground surface

Contaminated groundwater known to be within proposed right of way at 6 feet below ground surface.

Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required

Site photographs and a site map showing areas of concern

Plat map showing parcel and any proposed areas of acquisition or easement

Historic aerial photos of site - clearly outline site

Historic WisDOT or other as-builts and plat maps - clearly outline site

Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations: A Phase 2 Subsurface Investigation was performed in July 2010. Special provisions will be written and provided at the time final plans are developed.

No additional hazardous materials investigation is required.

If construction or real estate requirements change, evaluation of need for further investigation will be necessary.

Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.

Conduct additional investigation

Phase 2 (determine if contamination is present)

Phase 2.5 (determine extent of contamination within existing R/W only)

Phase 3 (determine full extent of contamination prior to acquisition)

Phase 4 (remediate site)

Other (describe)

Prepared by: MSA Professional Services, Inc. on 2/9/2012

Recommendations accepted by (name and title): _____, on _____

Signature: _____

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WDNR BRRTS on the Web

[BOTW Home](#) >> [Basic Search](#) >> [Search Results](#) >> [Activity Details](#)

JOHNSON PROPERTY Remediation Activity Details

PRINT HELP					
Activity Number and Name			Activity Type	Status	
03-13-000292 JOHNSON PROPERTY			LUST	CLOSED	
Facility ID	Start Date	Location Name <small>View other activities at this Location</small>			
NONE	01/29/1989	JOHNSON PROPERTY			
Commerce Number	End Date	Address <small>View on Google Maps™</small> <small>[Exit DNR]</small>	Municipality		
53703355301 <small>[Exit DNR]</small>	01/10/1997	201 S INGERSOLL ST	MADISON		
EPA CERCLIS ID	Date of Last Action	County	DNR Region		
NONE	01/10/1997	DANE	SOUTH CNTRL		
Agency Jurisdiction	Petroleum Risk	Other Location Info		Plot Size (Acres)	
DNR-RR	HIGH	NONE		UNKNOWN	
Public Land Survey System Description			DNR RR Sites Map		
SE 1/4 of the NE 1/4 of Sec 13, T07N, R09E			View Activity on Map		
Comments					
THERE ARE 5 REMEDIATION AND NO WASTE ACTIVITIES AT THIS LOCATION. CLICK ON THE LOCATION NAME LINK TO VIEW LOCATION DETAILS AND VIEW OTHER ACTIVITIES AT THIS LOCATION.					
Characteristics					
EPA NPL Site?	Commerce Tracked?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?
No	Yes	Yes	No	No	No

Actions				
Place Cursor Over Code to View Description				
Date	Code	Name	Comment	
01/29/1989	1	Notification	-	
03/06/1990	2	RP Letter Sent	RP LETTER	
08/08/1990	45	Form 4 Approved	FORM 4 APPROVED	
12/01/1993	39	Remedial Action Options Report received (w/out Fee)	RA WORK PLAN RECVD	
12/21/1993	30	Site Investigation Workplan Go Ahead (notice to proceed)	NOTICE TO PROCEED	
02/23/1994	43	Status Report Received	QRTL/MTHLY STATUS RPT	
12/28/1994	30	Site Investigation Workplan Go Ahead (notice to proceed)/2	NOTICE TO PROCEED	
01/27/1995	41	Remedial Action Report Received	RA REPORT RECVD	
05/01/1995	30	Site Investigation Workplan Go Ahead (notice to proceed)/3	NOTICE TO PROCEED	
05/22/1995	43	Status Report Received/2	QRTL/MTHLY STATUS RPT	
06/12/1995	45	Form 4 Approved/2	FORM 4 APPROVED	

06/19/1995	43	Status Report Received/3	QRTLY/MTHLY STATUS RPT
07/19/1995	43	Status Report Received/4	QRTLY/MTHLY STATUS RPT
09/07/1995	43	Status Report Received/5	QRTLY/MTHLY STATUS RPT
10/04/1995	43	Status Report Received/6	QRTLY/MTHLY STATUS RPT
11/08/1995	43	Status Report Received/7	QRTLY/MTHLY STATUS RPT
01/16/1996	43	Status Report Received/8	-
02/27/1996	43	Status Report Received/9	-
04/09/1996	43	Status Report Received/10	-
06/13/1996	84	Conditional Closure	-
01/10/1997	11	Activity Closed	-

Impacts	
Type	Comment
Groundwater Contamination	GROUNDWATER CONTAMINATION
Soil Contamination	SOIL CONTAMINATION

Substances		
Substance	Substance Type	Amount Released
Diesel Fuel	Petroleum	
Volatile Organic Compounds	VOC	

Who	
Responsible Party:	MARQUIP CO 1245 E WASHINGTON AVE MADISON, WI 53703
Project Manager:	MICHAEL SCHMOLLER 3911 FISH HATCHERY RD FITCHBURG,
Responsible Party:	PERSONALLY IDENTIFIABLE INFORMATION IS IN FILE

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101 S. Webster Street . PO Box 7921 . Madison, Wisconsin 53707-7921 . 608.266.2621

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WDNR BRRTS on the Web

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MADISON CTY PROPERTY SITE #2 Remediation Activity Details

PRINT HELP					
Activity Number and Name			Activity Type		Status
02-13-227102 MADISON CTY PROPERTY SITE #2			ERP		CLOSED
Facility ID	Start Date	Location Name <small>View other activities at this Location</small>			
NONE	06/23/1999	JOHNSON PROPERTY			
Commerce Number	End Date	Address <small>View on Google Maps™ [Exit DNR]</small>	Municipality		
53703355301 [Exit DNR]	11/08/1999	201 S INGERSOLL ST	MADISON		
EPA CERCLIS ID	Date of Last Action	County	DNR Region		
NONE	11/08/1999	DANE	SOUTH CNTRL		
Agency Jurisdiction	Petroleum Risk	Other Location Info		Plot Size (Acres)	
COMMERCE	LOW	NONE		UNKNOWN	
Public Land Survey System Description			DNR RR Sites Map		
SE 1/4 of the NE 1/4 of Sec 13, T07N, R09E			View Activity on Map		
Comments					
*** TRANSFERRED TO COMMERCE - ACTIVITY NO LONGER UNDER DNR JURISDICTION *** THERE ARE 5 REMEDIATION AND NO WASTE ACTIVITIES AT THIS LOCATION. CLICK ON THE LOCATION NAME LINK TO VIEW LOCATION DETAILS AND VIEW OTHER ACTIVITIES AT THIS LOCATION.					
Characteristics					
EPA NPL Site?	Commerce Tracked?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?
No	Yes	No	Yes	No	No

Actions			
<small>Place Cursor Over Code to View Description</small>			
Date	Code	Name	Comment
06/23/1999	<u>1</u>	Notification	-
08/11/1999	<u>2</u>	RP Letter Sent	-
08/26/1999	<u>37</u>	SI Report Received (w/out Fee)	*** SITE INVESTIGATION DETERMINED BY COMMERCE TO BE COMPLETE - FROM DCOM DATA INTERCHANGE ***
09/23/1999	<u>76</u>	Activity Transferred to DCOM	-
11/08/1999	<u>11</u>	Activity Closed	*** NR708 Closure from Commerce Data Interchange ***
11/08/1999	<u>39</u>	Remedial Action Options Report received (w/out Fee)	*** NR708 from Commerce Data Interchange ***
11/08/1999	<u>83</u>	Close-out Under NR708.09	*** NR708 from Commerce Data Interchange ***

Impacts	
Type	Comment

Soil Contamination	-
--------------------	---

Substances		
Substance	Substance Type	Amount Released
Gasoline - Unleaded and Leaded	Petroleum	

Who	
Responsible Party:	MADISON CITY OF 215 MARTIN LUTHER KING BLVD MADISON, WI 53701
Project Manager:	WI DEPT OF COMMERCE (DCOM) 201 WEST WASHINGTON AVE MADISON, WI 53703

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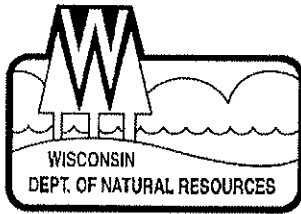
dnr.wi.gov

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State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor
Scott Hassett, Secretary
Lloyd L. Eagan, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TTY Access via relay - 711

June 20, 2006

File Ref: 07-13-543703
Dane County

Heather Mann
Urban Open Space Foundation
200 North Blount Street
Madison, WI 53703

SUBJECT: Final Case Closure
Farwell Park, 201 South Ingersol Street, Madison, WI

Dear Ms Mann:

On June 20, 2006 the South Central Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code. It is the Department's intent to conduct inspections in the future to ensure that the conditions included in this letter including compliance with referenced maintenance plans are met.

Pursuant to s. 292.12(2) (a), Wis. Stats., the soil cover that currently exists in the location shown on the attached map shall be maintained in compliance with the attached maintenance plan in order to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health. If soil in the specific locations described above is excavated in the future, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable statutes and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken during excavation activities to prevent a health threat to humans.

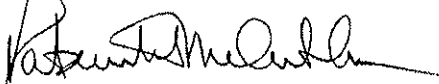
The following activities are prohibited on any portion of the property where a soil cover is required as shown on the attached map, unless prior written approval has been obtained from the Wisconsin

Department of Natural Resources: 1) removal of the existing barrier; 2) replacement with another barrier; 3) excavating or grading of the land surface; 4) filling on capped or paved areas; 5) plowing for agricultural cultivation; or 6) construction or placement of a building or other structure.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line <http://www.dnr.state.wi.us/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

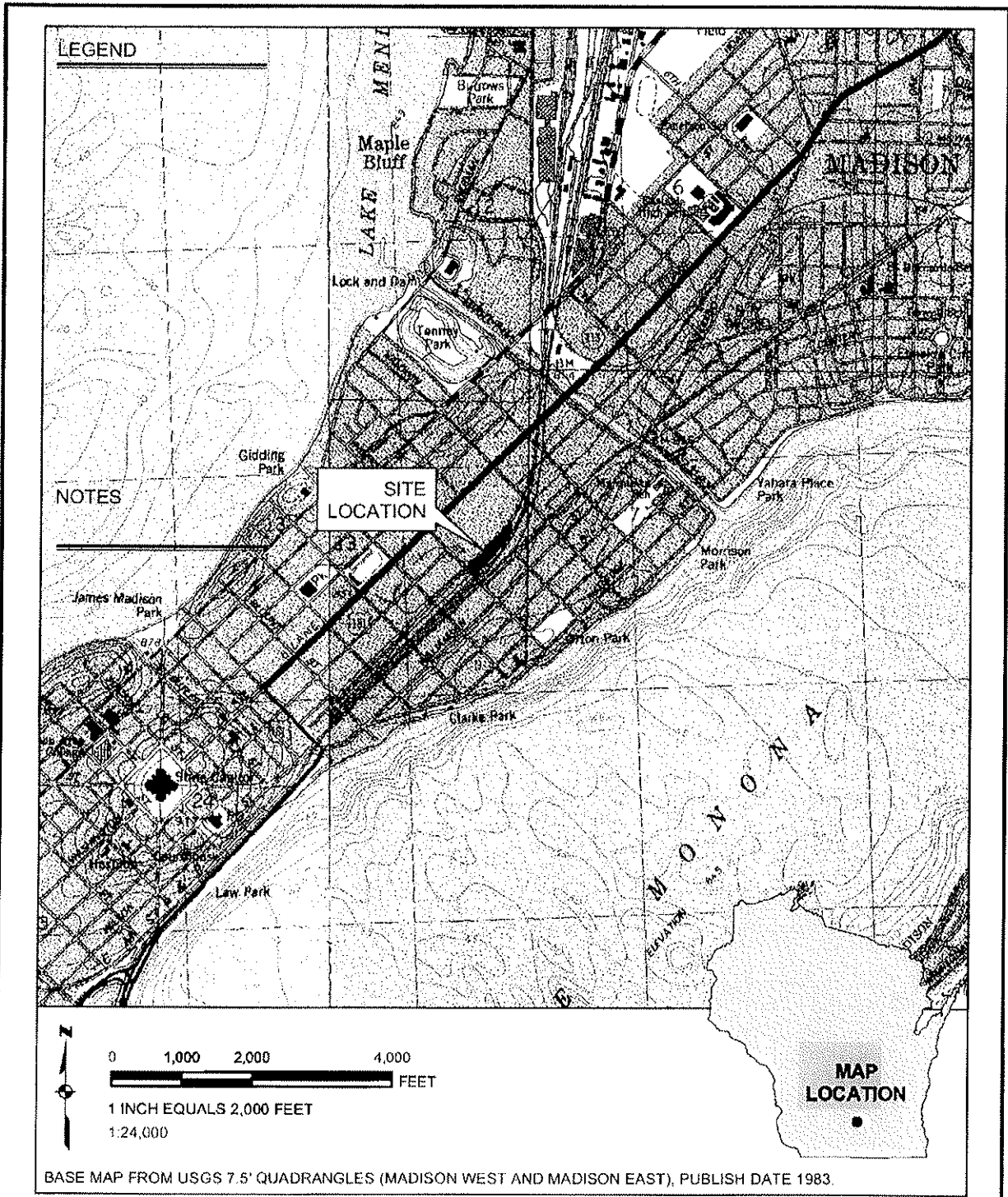
The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Michael Schmoller at 608-275-3303.

Sincerely,



Patrick McCutcheon, South Central Region
Remediation & Redevelopment Team Supervisor

cc: Kris Krause, RMT, Inc, 744 Heartland Trail, Madison, WI 53717



744 Heartland Trail
Madison, WI 53717 - 1934
P.O. Box 6923
Madison, WI 53706 - 0923
Phone: 608-831-4444
Fax: 608-631-3021

SITE LOCATOR MAP

**UOSF CLOSURE
FARWELL PARK**

DRAWN BY:	HANKLEY C
APPROVED BY:	AAS
PROJ. NO.:	00-08384.02
FILE NO.:	63840201.mxd
DATE:	APRIL 2006



City of Madison, Wis. - GeoSpatial Information System (MADMAPS)

NAVIGATION

MEASURE/READOUTS

- Linear Measure
- Area Measure
- Cumulative Distance
- Display Location

LEGEND

- Ownership Parcels
- Water Mains
- CLD

[Full Legend](#)

Create Map	Parcel Number	All Addresses on a Parcel	Owner's Name	Create Report
Map	0709-131-2302-5	201 S INGERSOLL ST	URBAN OPEN SPACE FOUNDATION INC	Report

Parcel ID: 0709-131-2302-5

Geographic Position (WTM): 571444, 290337

Sources:

City of Madison Website: <http://gis.ci.madison.wi.us/MADMAPS/GISHome.html>

WDNR RR GIS Registry

1/25/06

Table 1
Soil Sample Results - Metals
201 South Ingersoll - Madison, Wisconsin
November 21, 2000 (Pre-Cap)
(mg/kg)

Compound	WDNR RCLs		Sample									
	Non-Industrial	Industrial	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
			Depth (inches)									
			26-30	20-24	18-22	26-30	23-27	28-32	30-34	25-29	24-28	21-25
Cadmium	8	510	0.22	<0.033	<0.031	<0.026	<0.025	<0.035	<0.037	<0.027	<0.037	<0.040
Lead	50	500	55.8	65.9	11.6	18.7	29.9	3.2	2.1	25.6	39.9	28.7

Prepared By: A. Selfwood 1/26/06

Checked By: M. Chan 1/26/06

Notes

Data reproduced and reformatted from Soil and Engineering Services' summary tables

RCLs = Residual Contaminant Levels

BOLD = Concentration exceeds the RCL for non-industrial sites

RCLs for metals are from Wisconsin Administrative Code NR 720.

Table 2
Soil Sample Results - PAHs
201 South Ingersoll - Madison, Wisconsin
November 21, 2000 (Pre-Cap)
(mg/kg)

Compound	WDNR Suggested RCLs		Sample									
	Non-Industrial	Industrial	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
			Depth (inches)									
			26-30	20-24	18-22	26-30	23-27	28-32	30-34	25-29	24-28	21-25
1-Methyl Naphthalene	1,100	70,000	<0.18	<1.8	<0.17	<0.35	<0.17	<0.018	<0.018	<0.18	<0.36	<0.36
2-Methyl Naphthalene	600	40,000	<0.20	<0.20	<0.19	<0.39	<0.19	<0.021	<0.020	<0.20	<0.40	<0.40
Acenaphthene	900	60,000	<0.79	<7.9	<0.75	<1.5	<0.75	<0.080	<0.077	<0.78	<1.6	<1.6
Acenaphthylene	18	360	0.36	<2.0	<0.19	<0.39	<0.19	<0.021	0.031	<0.20	0.6	<0.40
Anthracene	5,000	300,000	<0.030	<0.31	<0.029	<0.058	<0.029	<0.0031	<0.0030	<0.030	<0.060	<0.060
Benzo (a) anthracene	0.088	3.9	0.038	2	0.21	0.69	<0.017	<0.0018	0.014	0.018	0.051	<0.036
Benzo (b) fluoranthene	0.088	3.9	0.26	11	0.47	2.6	0.042	0.0029	0.041	0.039	0.13	0.074
Benzo (k) fluoroanthene	0.88	39	0.094	3	0.17	0.83	0.017	<0.00082	0.015	0.018	0.10	<0.016
Benzo (g,h,i) perylene	1.8	39	0.22	7.2	0.41	2.1	<0.034	0.019	0.041	0.050	0.10	<0.071
Benzo (a) pyrene	0.0088	0.039	0.14	3.5	0.29	1.5	<0.043	0.0073	0.025	<0.045	0.091	<0.089
Chrysene	8.8	390	<0.034	<0.34	<0.032	<0.065	<0.032	<0.0034	<0.0033	<0.034	<0.067	<0.067
Dibenzo (a,h) anthracene	0.0018	0.078	<0.19	6.3	0.27	1.6	<0.18	<0.019	<0.019	<0.19	<0.38	<0.38
Fluoranthene	600	40,000	<0.027	<0.27	<0.026	<0.052	<0.026	<0.0027	<0.0026	<0.027	<0.053	<0.053
Fluorene	600	40,000	<0.90	<0.90	<0.086	<0.17	<0.086	<0.0091	<0.0088	<0.089	<0.18	<0.18
Indeno (1,2,3-cd) pyrene	0.088	3.9	<0.052	<0.52	<0.049	<0.099	<0.049	<0.0053	<0.0050	<0.051	<0.10	<0.10
Naphthalene	20	110	<0.18	<1.8	<0.17	<0.35	<0.17	<0.018	<0.018	<0.18	<0.36	<0.36
Phenanthrene	18	390	0.24	<0.29	<0.028	<0.056	0.050	<0.0030	0.02	0.045	0.55	0.25
Pyrene	500	30,000	<0.10	<1.0	<0.098	<0.20	<0.098	<0.010	<0.010	<0.10	<0.20	<0.20

Notes

Data reproduced and reformatted from Soil and Engineering Services' summary tables

RCLs = Residual Contaminant Levels

PAHs = polycyclic aromatic hydrocarbons

Suggested RCLs for PAHs taken from Soil Cleanup Levels for Polycyclic Aromatic Hydrocarbons (PAHs) Interim Guidance - WDNR Publication RR-519-97, April 1997

BOLD = concentration exceeds the RCL for non-industrial sites

Prepared By: A. Sellwood 1/26/06

Checked By: M. Chan 1/26/06

Table 3
Soil Sample Results - VOCs
201 South Ingersoll - Madison, Wisconsin
November 21, 2000 (Pre-Cap)
(mg/kg)

Compound	WDNR RCLs		Sample										
	Direct Contact	Groundwater	B-1	B-2	B-3	B-4	B-5		B-6	B-7	B-8	B-9	B-10
			Depth (inches)										
			26-30	20-24	18-22	26-30	23-27	28-32	30-34	25-29	24-28	21-25	
1,1,1-Trichloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.040	
1,1,2,2-Tetrachloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.026	
1,1,2-Trichloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,1-Dichloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.042	
1,1-Dichloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.030	
1,2,3-Trichlorobenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.048	
1,2,4-Trichlorobenzene			0.036	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.032	
1,2,4-Trimethylbenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.047	
1,2-Dibromo-3-chloropropane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.034	
1,2-Dibromoethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.042	
1,2-Dichlorobenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,2-Dichloroethane	0.54	0.0049	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.038	
cis-1,2-Dichloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050	
trans-1,2-Dichloroethylene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.038	
1,2-Dichloropropane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.038	
1,3,5-Trimethylbenzene			0.026	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.028	0.76	
1,3-Dichlorobenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
1,3-Dichloropropane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.044	
1,4-Dichlorobenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
2,2-Dichloropropane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.042	
2-Chlorotoluene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
4-Chlorotoluene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	
Benzene	1.10	0.0055	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.250	
Bromobenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.030	
Bromodichloromethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.026	
n-Butylbenzene			0.093	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.087	1.1	
sec-Butylbenzene			0.034	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.10	
tert-Butylbenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	2.2	

Table 3
Soil Sample Results - VOCs
201 South Ingersoll - Madison, Wisconsin
November 21, 2000 (Pre-Cap)
(mg/kg)

Compound	WDNR RCLs		Sample									
	Direct Contact	Groundwater	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
			Depth (inches)									
			26-30	20-24	18-22	26-30	23-27	28-32	30-34	25-29	24-28	21-25
Carbon Tetrachloride			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.046
Chlorobenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chlorodibromomethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
Chloroethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.044
Chloroform			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.050
Chloromethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.040
Dichlorodifluoromethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.038
Diisopropyl ether			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.040
Ethylbenzene		2.9	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.32
Hexachlorobutadiene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.040
Isopropylbenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.12
p-Isopropyltoluene			<0.025	0.033	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.082
Methyl tert-butyl ether			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.038
Methylene chloride			<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	0.36
Naphthalene			0.11	0.097	0.10	0.10	0.055	<0.025	<0.025	0.050	0.067	1.0
n-Propylbenzene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.025	0.2
Tetrachloroethylene			0.15	0.050	<0.025	<0.025	0.057	<0.025	<0.025	<0.025	<0.025	<0.025
Toluene		1.5	0.091	0.028	<0.025	0.034	<0.025	<0.025	<0.025	<0.025	0.046	1.7
Trichloroethylene			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.044
Trichlorofluoromethane			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.044
Vinyl chloride			<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.028
Total xylenes		4.1	0.088	0.034	<0.025	0.033	<0.025	<0.025	<0.025	<0.025	<0.025	3.5

Prepared By: A. Selfwood 1/26/06

Checked By: M. Chan 1/26/06

Notes

Data reproduced and reformatted from Soil and Engineering Services' summary tables

RCLs = Residual Contaminant Levels

BOLD = Concentration exceeds the lowest RCL

PARCEL E: A parcel of land being part of Block 185, Original Plat, City of Madison, Dane County, Wisconsin, to-wit:


Commencing at the most Westerly corner of said Block 185 of the Original Plat; thence S44°57'26"E, 195.30 feet to a point on a curve and the point of beginning; thence Northeasterly along a curve to the left which has a radius of 2,834.04 feet and a chord which bears N37°40'21"E, 600.01 feet to the Southwest right-of-way line of South Few Street; thence along said right-of-way line S45°04'40"E, 11.34 feet to a point on a curve; thence Southwesterly along a curve to the right which has a radius of 2,845.04 feet and a chord which bears S37°42'05"W, 600.00 feet to the Northeast right-of-way line of South Ingersoll Street; thence along said right-of-way line N44°57'26"W, 11.00 feet to the point of beginning. This parcel contains 6,637.52 square feet, 0.152 acres.

PARCEL F: parcel of land being part of Block 199-200, Original Plat, City of Madison, Dane County, Wisconsin, to-wit:

Commencing at the most Westerly corner of said Block 199-200 of the Original Plat; thence S45°04'40"E, 102.48 feet to a point on a curve and the point of beginning; thence Northeasterly along a curve to the left which has a radius of 2,834.04 feet and a chord which bears N28°39'14"E, 154.99 feet to a point of compound curve; thence continuing Northeasterly along a curve to the left which has a radius of 2,441.67 feet and a chord which bears N25°03'27"E, 172.93 feet to the Southeast right-of-way of Railroad Street; thence along said line which bears N44°58'38"E, 29.59 feet to a point on a curve; thence Southwesterly along a curve to the right which has a radius of 2,452.67 feet and a chord which bears S24°44'35"W, 200.62 feet to a point of compound curve; thence continuing Southwesterly along a curve to the right which has a radius of 2,845.04 feet and a chord which bears S28°40'58"W, 158.47 feet to the Northeast right-of-way line of South Few Street; thence along said right-of-way line N45°04'40"W, 11.37 feet to the point of beginning. This parcel contains 3,674.89 square feet, 0.084 acres.

Owner Certification Statement

I, Heather Mann, of the Urban Open Space Foundation, believe that a legal description for each property that is within, or partially within, the contaminated site boundary, as defined by the November 21, 2000, soil investigation, has been attached within this submittal for Case Closure for 201 South Ingersoll Street, Madison, Wisconsin, WDNR BRRTs Case 07-13-543256.



3/31/02

Soil Cover Maintenance Plan

March 2006

Property Located At:
201 South Ingersoll Street, Madison, Wisconsin
WNDR BRRTS Case # 07-13-543256
Parcel # 0703-131-2302-5

Introduction

This document is the Maintenance Plan for a soil cover at the above-referenced property in accordance with the requirements of s. NR 724.13(2), Wisconsin Administrative Code. The maintenance activities relate to the existing soil cover occupying the area over the contaminated soil on-site. The contaminated soil is impacted by polycyclic aromatic hydrocarbons (PAHs) and lead. The location of the soil cover to be maintained in accordance with this Maintenance Plan as well as the location of the impacted soil are identified in the attached map (Exhibit A).

Cover and Building Barrier Purpose

The soil cover over the contaminated soil serves as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. Based on the current and future use of the property, the barrier should function as intended, unless disturbed.

Annual Inspection

The soil cover overlying the contaminated soil and as depicted in Exhibit A will be inspected once a year, normally in the spring after all snow and ice is gone, for deterioration, cracks, and other potential problems that can cause exposure to underlying soil. The inspections will be performed to evaluate damage due to settling, exposure to the weather, increasing age, and other factors. Any area in which soil has become, or is likely to become, exposed will be documented. A log of the inspections and any repairs will be maintained by the property owner and is included as Exhibit B, Cap Inspection Log. The log will include recommendations for the necessary repair of any areas in which underlying soil is exposed. Once repairs are completed, they will be documented in the inspection log. A copy of the inspection log will be kept on-site and will be available to be sent to the Wisconsin Department of Natural Resources ("WDNR") at their request.

Maintenance Activities

If problems are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Repairs can include patching and filling operations or larger construction operations. In the event that necessary maintenance activities expose the underlying soil, the owner must inform maintenance workers of the direct contact

exposure hazard and provide them with appropriate personal protection equipment ("PPE"). The owner must also sample any soil that is excavated from the site prior to disposal to ascertain if contamination remains. The soil must be treated, stored, and disposed of by the owner in accordance with applicable local, state, and federal law.

In the event that the soil cover overlying the contaminated soil is removed or replaced, the replacement barrier must be equally impervious. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the WDNR or its successor. The property owner, in order to maintain the integrity of the soil cap and/or the building, will maintain a copy of this Maintenance Plan on-site and will make it available to all interested parties (*i.e.* on-site employees, contractors, future property owners, etc.) for viewing.

Amendment or Withdrawal of Maintenance Plan

This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of the WDNR.

Contact Information

March 2006

Site Owner and Operator: Urban Open Space Foundation
200 North Blount Street, Madison, WI 53703
608-255-9877

Consultant: RMT, Inc
744 Heartland Trail, Madison, WI 53717
608-831-4444

WDNR: Mike Schmoller
3911 Fish Hatchery Road, Fitchburg, WI 53711
608-275-3303

NOT TO SCALE

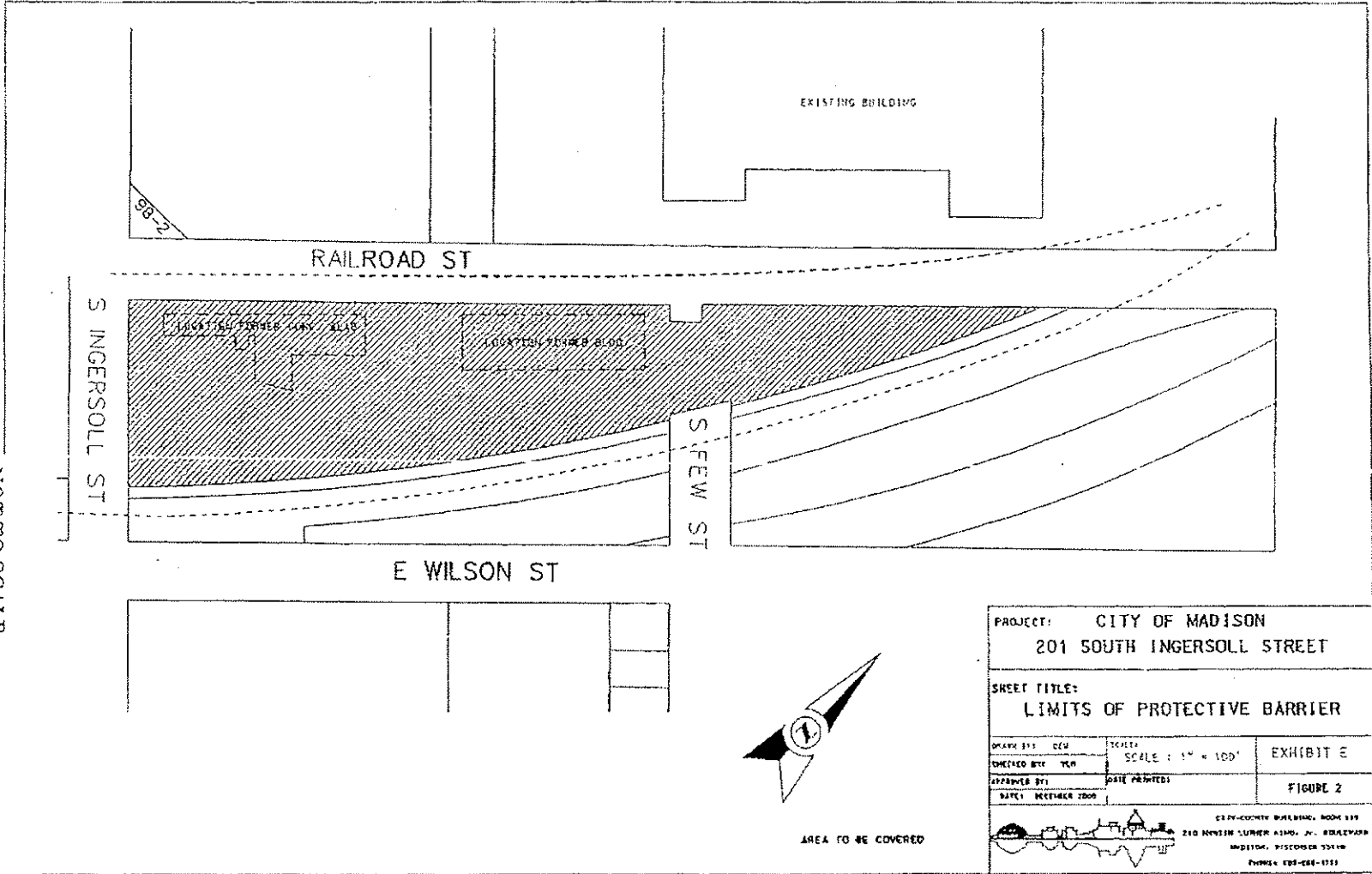


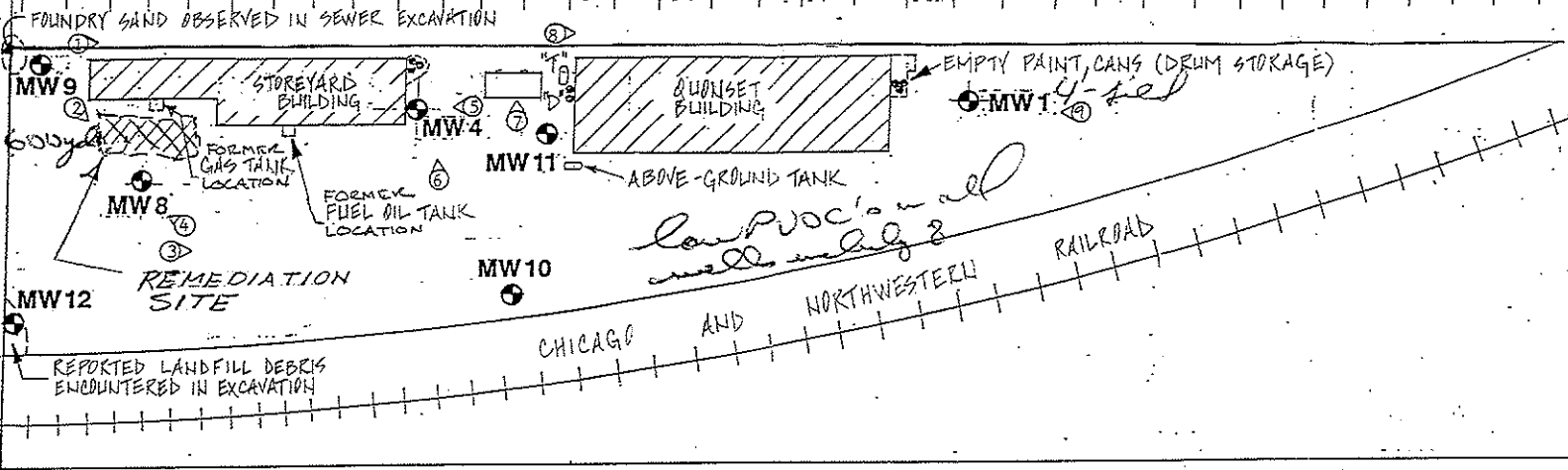
Exhibit A

MADISON GAS & ELECTRIC

ELECT. TRANS. STORAGE PAD

RAILROAD STREET (VACATED)

S. INGERSOLL STREET



low potential well only 8

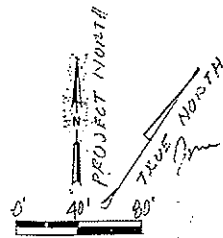
EAST WILSON STREET

NOTES: 12-11-90

- MW 1, MW 4, MW 8 were installed in September, 1989 in connection with a Subsurface Environmental Assessment by Miller Engineers (Job 10565E1) which is the subject of a report dated 2-14-90.
- MW 9, MW 10, MW 11 and MW 12 were installed in September 1990.

KEY

- ⊕ MONITORING WELL LOCATION
- Photograph Location (SEE 2-14-90 REPORT)
- D - DRUMS
- T - TANK



Miller Jan 1991 report

MARQUIP INC. - JOHNSON PROPERTY
MADISON, WISCONSIN
JOB NO. 10565E3
REVISED 10-16-90
REVISED 11-7-90

FIGURE 3 MONITORING WELL LOCATION PLAN

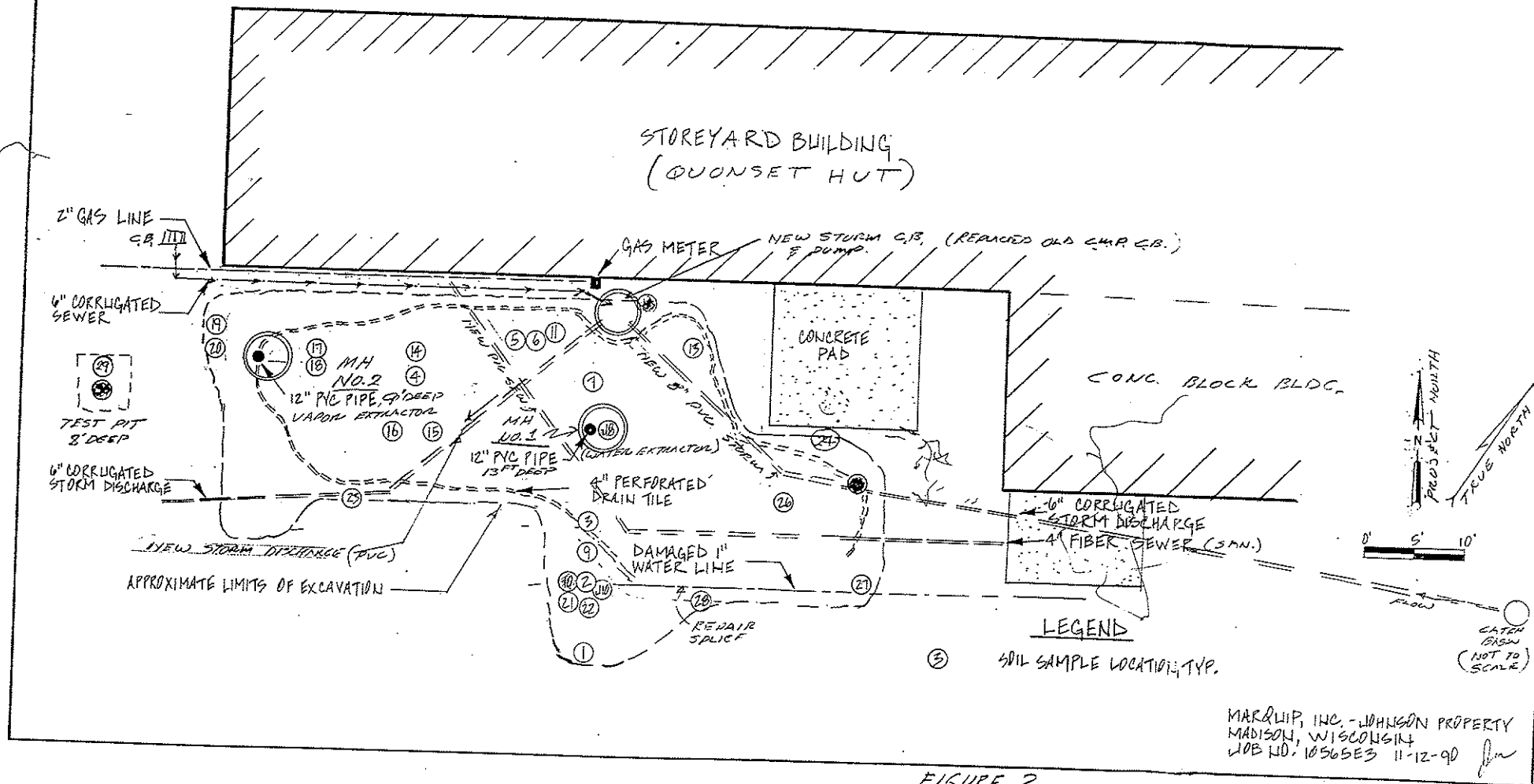
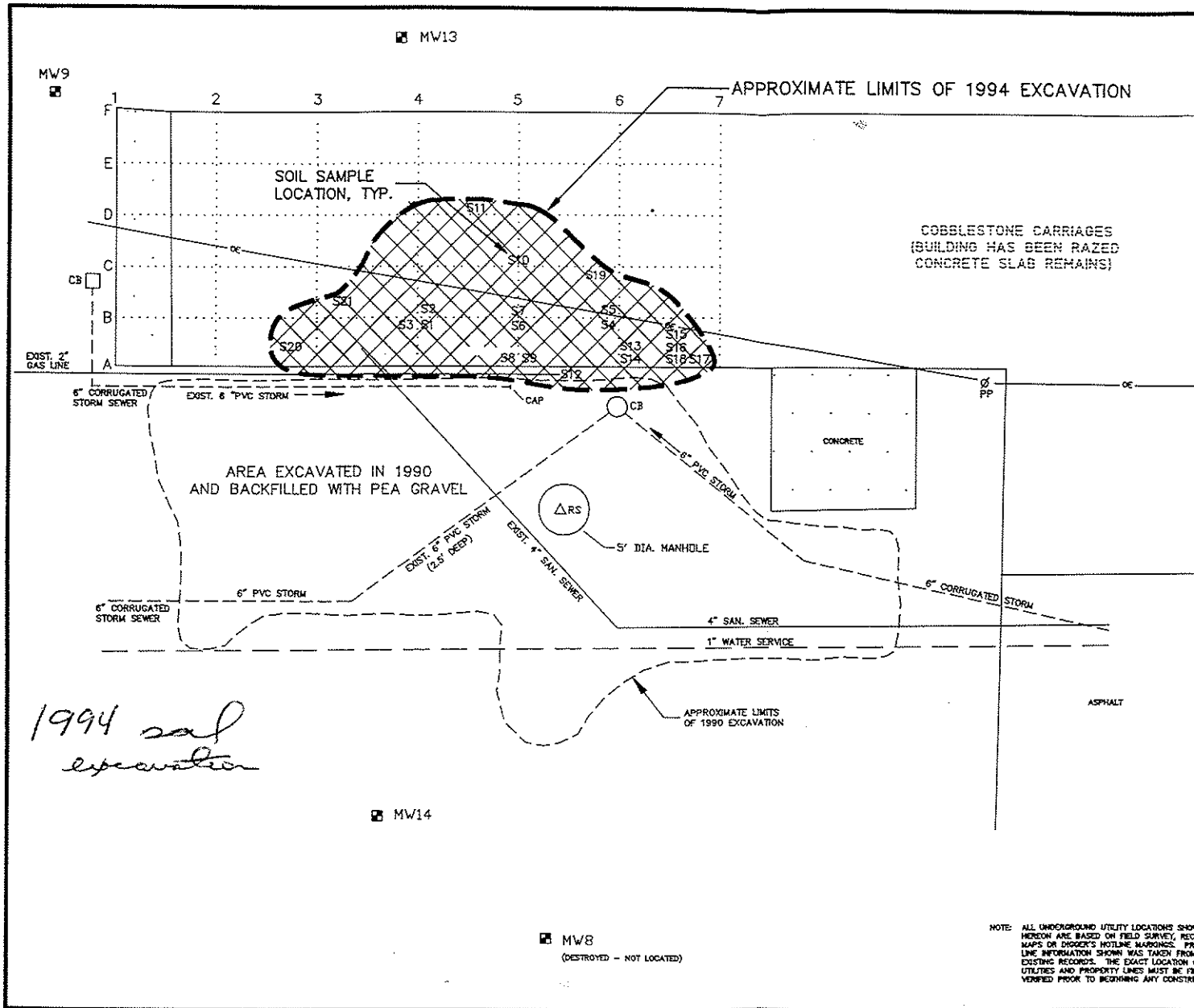


FIGURE 2. SOIL EXCAVATION AND UNDERGROUND REMEDIATION PIPING PLAN



MW9

MW13

APPROXIMATE LIMITS OF 1994 EXCAVATION

SOIL SAMPLE LOCATION, TYP.

COBBLESTONE CARRIAGES
(BUILDING HAS BEEN RAZED
CONCRETE SLAB REMAINS)

AREA EXCAVATED IN 1990
AND BACKFILLED WITH PEA GRAVEL

CONCRETE

APPROXIMATE LIMITS
OF 1990 EXCAVATION

EXIST. 2" GAS LINE

6" CORRUGATED STORM SEWER

EXIST. 6" PVC STORM

CAP

6" PVC STORM

6" CORRUGATED STORM SEWER

6" PVC STORM

EXIST. 6" PVC STORM (28" DEEP)

EXIST. 4" SAN. SEWER

5' DIA. MANHOLE

4" SAN. SEWER

1" WATER SERVICE

6" CORRUGATED STORM

ASPHALT

1994 soil excavation

MW14

MW8
(DESTROYED - NOT LOCATED)

LEGEND

- OE OVERHEAD ELECTRIC
- OT OVERHEAD TELEPHONE
- PP POWER POLE
- LP LIGHT POLE
- MH MANHOLE
- CB CATCH BASIN
- WV WATER VALVE
- GV GAS VALVE
- GROUND WATER MONITORING WELL, TYP.
- △ GROUND WATER RECOVERY SUMP, TYP.
- VAPOR EXTRACTION POINT, TYP.

BENCH MARKS

- BM1 NW FLANGE BOLT OF FIRE HYD. AT SW SIDE OF INGERSOLL ST., SW OF PROPERTY. ELEV. = 100.00



GRAPHIC SCALE



(IN FEET)

1 inch = 10 ft.

FIGURE 5 - SOIL SAMPLE LOCATION PLAN

MILLER ENGINEERS SCIENTISTS

5308 South Twelfth Street
Shaboygon, Wisconsin 53081
614-458-8164

MARQUIP, INC. - JOHNSON PROPERTY
REMEDIATION SERVICES
201 INGERSOLL STREET
MADISON, WISCONSIN

NOTE: ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON FIELD SURVEY, RECORD MAPS OR DIGGER'S HOTLINE MARKINGS. PROPERTY LINE INFORMATION SHOWN WAS TAKEN FROM EXISTING RECORDS. THE EXACT LOCATION OF ALL UTILITIES AND PROPERTY LINES MUST BE FIELD VERIFIED PRIOR TO BEGINNING ANY CONSTRUCTION.

SCALE	DATE	BY	SAB	SHEET
NOR 1"=10'	1-12-95			
JOB	10565ESC	OK	PCP	F-5

TABLE 2

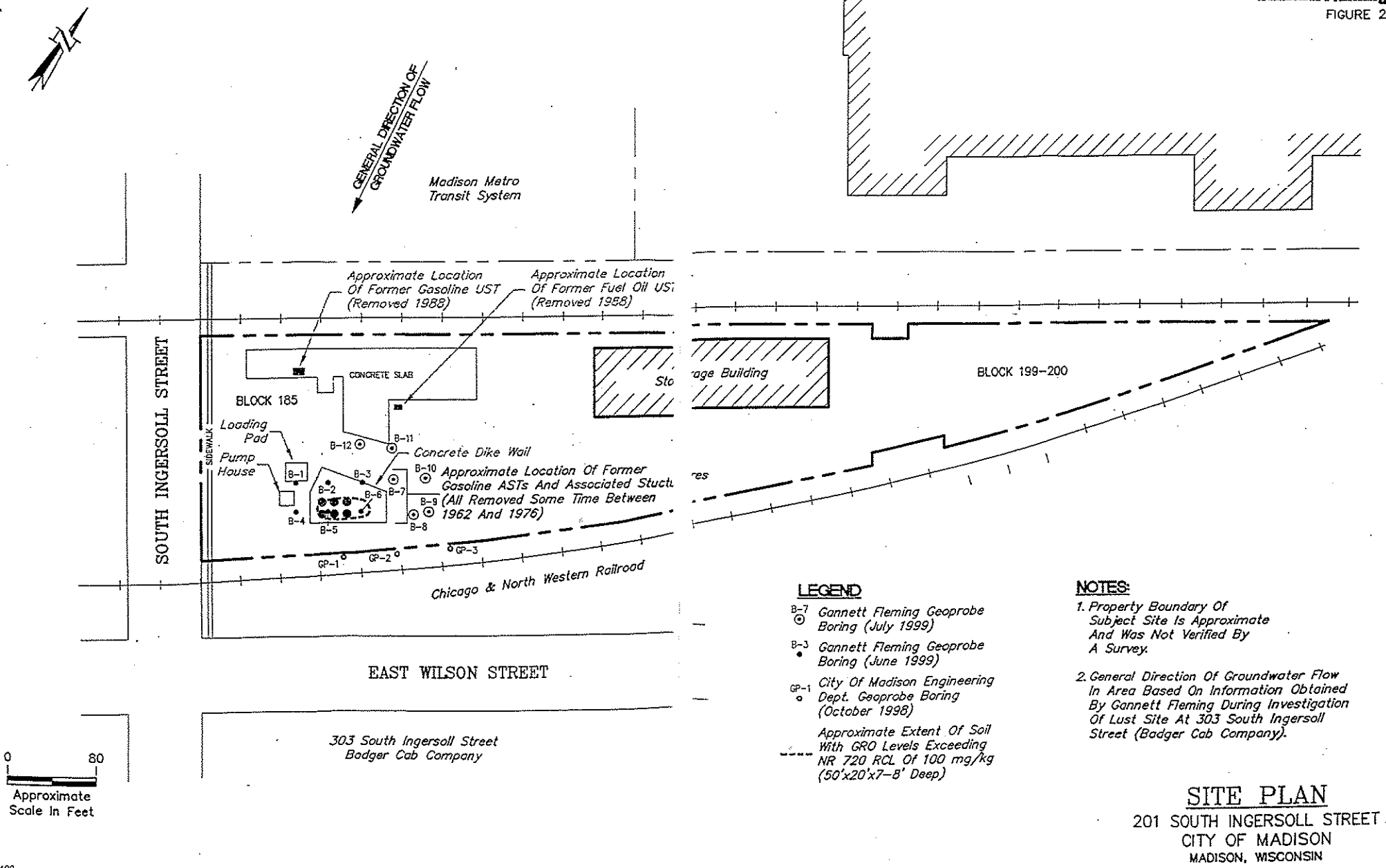
Soil Analytic Test Results—Excavated Soil

November 8, 1994

Analyte (µg/kg)	<u>S2</u>	<u>S5</u>	<u>S10</u>	<u>S11</u>	<u>S12</u>	<u>S14</u>	<u>S16</u>	<u>S17</u>	<u>S18</u>	<u>S19</u>	<u>S20</u>	<u>S21</u>	Interim NR 720 Standards
GRO (mg/kg)	ND	ND	ND	ND	110	6.5	110	ND	ND	ND	ND	ND	10
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5
Ethylbenzene	ND	ND	ND	ND	150	ND	130	ND	3.6	ND	ND	ND	2900
MTBE	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
Toluene	ND	ND	ND	ND	ND	ND	68	ND	ND	ND	ND	ND	1500
1,2,4-Trimethylbenzene	ND	ND	ND	ND	960	ND	530	ND	18	ND	ND	ND	--
1,3,5-Trimethylbenzene	ND	ND	ND	ND	1800	ND	1000	ND	5.9	ND	ND	ND	--
Total Xylenes	ND	ND	ND	ND	680	ND	440	ND	20.1	ND	ND	ND	--
Total PVOC	ND	ND	ND	ND	3590	ND	2168	ND	47.6	ND	ND	ND	4100
													--

L = Limit Samples
E = Excavated Samples

NA10565E\SORE1194.WB1

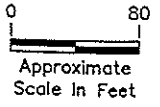


LEGEND

- B-7 Gannett Fleming Geoprobe Boring (July 1999)
- B-3 Gannett Fleming Geoprobe Boring (June 1999)
- GP-1 City Of Madison Engineering Dept. Geoprobe Boring (October 1998)
- Approximate Extent Of Soil With GRO Levels Exceeding NR 720 RCL Of 100 mg/kg (50'x20'x7'-8' Deep)

NOTES:

1. Property Boundary Of Subject Site Is Approximate And Was Not Verified By A Survey.
2. General Direction Of Groundwater Flow In Area Based On Information Obtained By Gannett Fleming During Investigation Of LUST Site At 303 South Ingersoll Street (Badger Cab Company).



SITE PLAN

201 SOUTH INGERSOLL STREET
 CITY OF MADISON
 MADISON, WISCONSIN

TABLE 2
ANALYTICAL RESULTS FOR SOIL SAMPLES (mg/kg)

Parameter	Sample I.D. and Depth												
	B-1		B-2		B-3		B-4	B-5		B-6		B-7	
	4-6 ft.	6-8 ft.	4-6 ft.	6-8 ft.	4-6 ft.	6-8 ft.	4-6 ft.	2-4 ft.	6-8 ft.	4-6 ft.	6-8 ft.	2-4 ft.	6-8 ft.
FID (ppm)	0.4	<0.2	300	680	4.4	300	320	860	>1000	14	120		
Lead	4.13	2.59	8.44	2.39	4.93	7.2	3	13.4	5.94	10	40.5		
GRO	<6.2	<6.2	<5.8	27.2	<6.5	439	525	<6.6	313	<5.7	<5.9		
Benzene	<0.031	<0.031	<0.029	<0.029	<0.033	<0.227	<0.256	<0.033	<0.249	<0.029	<0.029		
Ethylbenzene	<0.031	<0.031	<0.029	<0.029	<0.033	<0.453	0.572	<0.033	0.549	0.03	<0.029		
Toluene	<0.031	<0.031	<0.029	<0.029	<0.033	<2.265	<2.570	<0.033	<2.494	0.048	<0.059		
Xylenes	<0.062	<0.062	<0.058	<0.058	<0.066	<0.906	<1.028	<0.066	<0.998	0.053	<0.058		
Trimethylbenzene	<0.062	<0.062	<0.058	<0.058	<0.066	<0.906	<1.028	<0.066	1.966	0.054	<0.058		
MTBE	<0.031	<0.031	<0.029	<0.029	<0.033	<0.453	<0.514	<0.033	<0.499	<0.029	<0.029		

Parameter	Sample I.D. and Depth										NR 720 RCL
	B-9		B-10	B-11		B-12		GP-1	GP-2	GP-3	
	4-6 ft.	6-8 ft.	6-8 ft.	4-6 ft.	6-8 ft.	2-4 ft.	6-8 ft.	7 ft.	7 ft.	7 ft.	
FID (ppm)	50	14	0.2	100	6	<0.2	70	NM	NM	NM	NS
Lead	4.96	1.31	5.55	4.32	2.15	1	2.42	NA	NA	NA	50*
GRO	<6.0	<5.8	<6.1	<6.2	<6.0	<5.6	<6.0	<3.2	<3.2	<2.9	100
Benzene	<0.030	<0.029	<0.030	<0.031	<0.030	<0.028	<0.030	<0.025	<0.025	<0.025	0.0055
Ethylbenzene	<0.030	<0.029	<0.030	<0.031	<0.030	<0.028	<0.030	<0.025	<0.025	<0.025	2.9
Toluene	<0.060	<0.058	<0.061	<0.062	<0.030	<0.056	<0.030	<0.025	<0.025	<0.025	1.5
Xylenes	<0.060	<0.058	<0.060	<0.062	<0.060	<0.056	<0.060	<0.050	<0.050	<0.050	4.1
Trimethylbenzene	<0.060	<0.058	<0.060	<0.062	<0.060	<0.056	<0.060	<0.050	<0.050	<0.050	NS
MTBE	<0.030	<0.029	<0.030	<0.031	<0.030	<0.028	<0.030	<0.025	<0.025	<0.025	NS

NOTES:

- Results reported in units of milligrams per kilogram (mg/kg), unless noted otherwise.
- Samples B-1 through B-6 and B-7, B-9 through B-12 collected by Gannett Fleming, Inc. on June 21 and July 1, 1999, respectively.
- Samples GP-1, GP-2, and GP-3 collected by the City of Madison, Dept. of Engineering, on October 15, 1998.
- Results in bold exceed applicable NR 720 RCL.
- NR 720 RCL = Wisconsin Administrative Code NR 720 residual contaminant level.
- NS = No standard.
- NA = Not sampled.
- NM = Not measured.
- FID = Flame ionization detector.
- ppm = Parts per million.
- * = Non-industrial RCL based on human health risk from direct contact related to land use.

Gannett Fleming

CITY OF MADISON
201 SOUTH INGERSOLL STREET
MADISON, WISCONSIN

TABLE 3

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES (ug/l)

Gannett Fleming

Parameter	Sample I.D.														NR 140 ES
	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-9	B-10	B-11	B-12	GP-1	GP-2	GP-3	
PRO	<50	<50	1,990	<50	692	796	452	<50	<50	<50	<50	<50	<50	<50	NS
benzene	0.29J	<0.2	<4.0	0.23J	<2.0	<2.0	4.78	<0.2	<0.2	<0.2	<0.2	<0.26	<0.26	<0.26	5
ethylbenzene	<0.5	<0.5	<4.0	<0.5	<2.0	<2.0	<2.0	<0.5	<0.5	<0.5	<0.5	<0.24	<0.24	<0.24	700
toluene	<0.5	<0.5	<4.0	<0.5	<2.0	<2.0	<2.0	<0.5	<0.5	<0.5	<0.5	0.25	0.25	0.45	343
xylenes	<1.0	<1.0	<8.0	<1.0	<4.0	3.32	3.96	<1.0	<1.0	<1.0	<1.0	<1.34	<1.34	<1.34	620
trimethylbenzene	<1.0	<1.0	<8.0	<1.0	3.85	41.8	5.41	<1.0	<1.0	<1.0	<1.0	<1.40	<1.40	<1.40	480
1,1,1-TBE	<0.3	<0.3	<4.0	<0.3	<2.0	<2.0	<2.0	<0.3	<0.3	<0.3	<0.3	<0.22	<0.22	<0.22	60
naphthalene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.89	<0.89	<0.89	40

NOTES:

Results reported in units of micrograms per liter (ug/l).

Samples B-1 through B-6 and B-7, B-9 through B-12 collected by Gannett Fleming, Inc. on June 21 and July 1, 1999, respectively.

Samples GP-1, GP-2, and GP-3 collected by the City of Madison, Dept. of Engineering on October 15, 1998.

NR 140 ES = Wisconsin Administrative Code NR 140 enforcement standard.

J = Estimated concentration below laboratory quantitation level.

S = No standard.

NA = Not sampled.

201 South Ingersol Environmental Site Summary

1/7/00

Two usts closed by DNR on January 1, 1997, no restrictions on closure

1250 gallon gasoline ust
2000 gallon diesel fuel ust
both removed 1988, installed in the 1940's possibly

two soil excavations done as site remediation following site investigation
1990 about 600 yards around the former gasoline ust
1992 about 75 yards from beneath former Stoneyard Building near the former gasoline ust
there was no apparent contamination in the area of the diesel fuel ust

Six former ASTs closed by Commerce with no restrictions November 8, 1999 following investigation by Gannett Fleming, no soil or groundwater remediation done

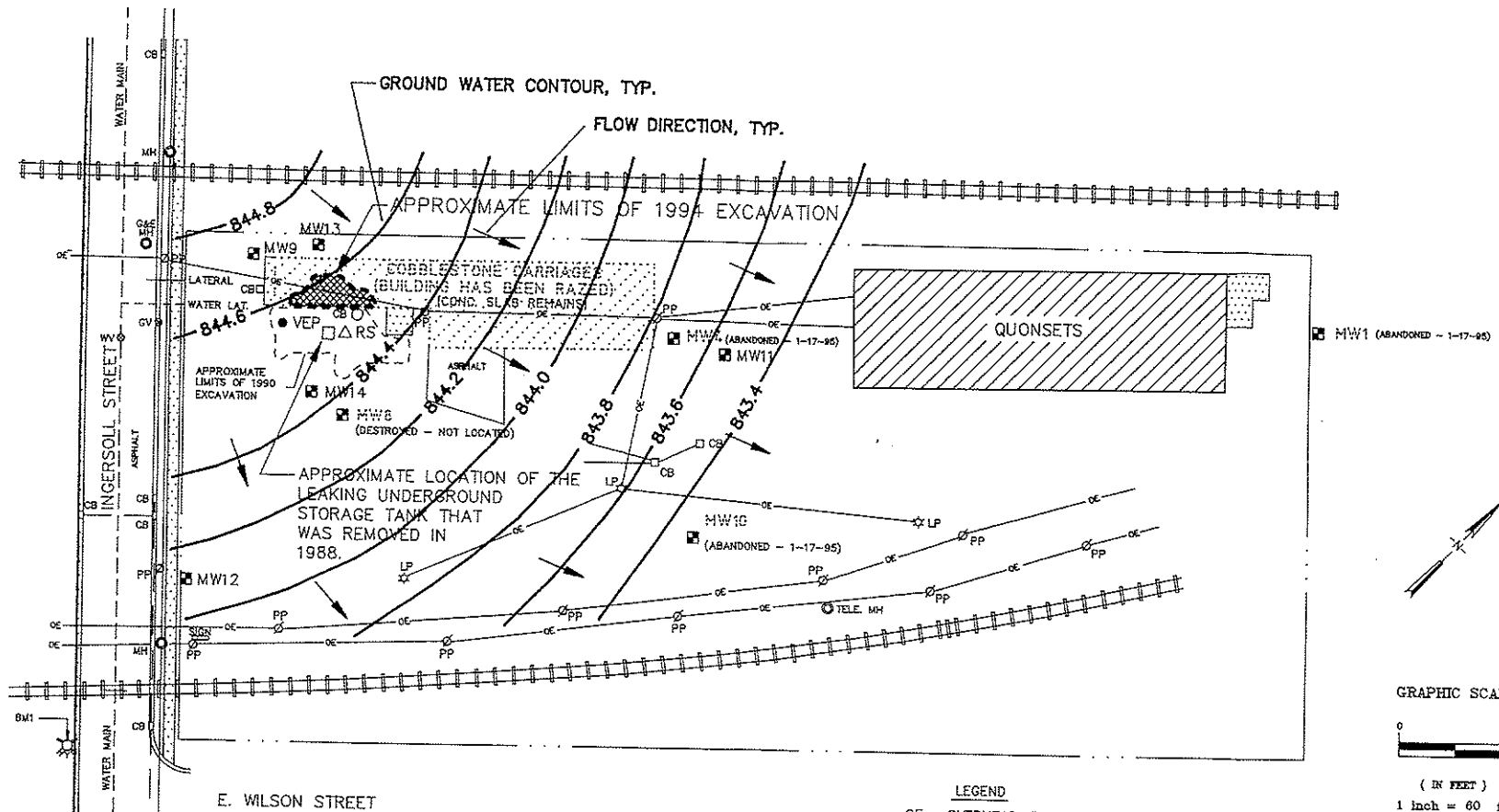
The soil and groundwater conditions related to the two former tank areas do not represent a concern for redeveloping the site as a park. However, no shallow soil samples were collected to evaluate potential direct contact risks that would result from a park use.

The Phase 1 and 2 data collected shows the site was filled starting in the 1940's with foundry sand, clean sand, probably refuse and likely other unknown materials. These fill materials and the direct contact risk they may pose have not been evaluated. Based on soil boring logs it appears that fill extends across the entire site with varying thickness.

The October 1998 Gannett Fleming Phase 1 report and the September 2000 BT2 Peer Review also discuss several land uses that need to be evaluated.

Before a remedial action plan can be developed the site needs additional soil samples collected at 1-2 feet and tested for VOCs, PAHs, lead and cadmium. The sample locations should be based on the earlier site reviews. This data can then be used to set a remedial action plan. The plan would likely involve a combination of excavation, soil capping, asphalt capping, deed restrictions and possibly new buildings.

The proposed use of a park does not require additional groundwater investigation or cleanup based on the tank area investigations. Should future data show a groundwater problem the current owner may have liability to investigate and remediate. If a lagoon becomes part of the park plan then groundwater conditions would need to be evaluated.



NOTE: ALL UNDERGROUND UTILITY LOCATIONS SHOWN HEREON ARE BASED ON FIELD SURVEY RECORD MAPS OR DIGDEN'S HOTLINE MAPPING. PROPERTY LINE INFORMATION SHOWN WAS TAKEN FROM EXISTING RECORDS. THE EXACT LOCATION OF ALL UTILITIES AND PROPERTY LINES MUST BE FIELD VERIFIED PRIOR TO BEGINNING ANY CONSTRUCTION.

FIGURE 5 - GROUND WATER CONTOUR PLAN (TYPICAL CONTOURS FOR 1995-1996)

MILLER ENGINEERS 5308 South Twelfth Street, Sheboygan, Wisconsin 53081, 414-458-0164

MARQUIP INC. - JOHNSON PROPERTY REMEDIAL ACTION SERVICES, 201 INGERSOLL STREET, MADISON, WISCONSIN

SCALE	DATE	BY	SHEET
1" = 60'	3-1-96	SAB	F-5
	10565E7A	KAL	OF

EXISTING BUILDING

98-2

RAILROAD ST

B-1

S INGERSOLL ST

LOCATION FORMER CONC. SLAB

LOCATION FORMER BLDG.

B-2

S FEW ST

E WILSON ST

B-10

B-7

B-6

B-4

B-3

B-9

B-8

B-5

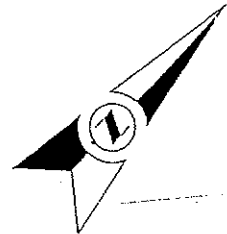
PROJECT: CITY OF MADISON
201 SOUTH INGERSOLL STREET

SHEET TITLE:
SOIL SAMPLE LOCATIONS

DRAWN BY: DEM
CHECKED BY: MLR
SCALE: SCALE : 1" = 100'
FILE NO.:

FIGURE 1

CITY-COUNTY BUILDING, ROOM 115
210 MARTIN LUTHER KING, JR. BOULEVARD
MADISON, WISCONSIN 53710
PHONE: 608-266-4751



B-1

BORING

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CORRESPONDENCE/MEMORANDUM

DATE: April 26, 2006
TO: SCR Closure Committee
FROM: Michael Schmoller
SUBJECT: Closure Request:
Farwell Park
201 South Ingersoll Street
Madison
02-13-546624

Acre for Reuse: 3
Closure Date: April 11, 2006
Priority Factor: Brownfield Redevelopment
BRRTs: 02-13-546624

This 3 acre parcel of land has been purchased by the Urban Open Space Foundation for use as a park on the east side of Madison. This land was the location of two previous cleanup sites tracked on BRRTs. Site 02-13-227102, City of Madison Property #2 was opened June 1999 and closed with restrictions November 1999. Site 03-13-000292, Johnson Property was closed January 1997 with no restrictions. Work on the Johnson property site included soil excavation and a groundwater pump and treat system to address impacts from a leaking UST.

Upon closure both sites were deemed clean for their current land uses. In October 2000 Urban Open Space purchased the land with the intent to construct a park. Because park use would entail a much higher risk of direct contact concerns additional shallow soil sampling was required by the Department. In 2000 soil samples were collected from the top 3 feet of soil and tested for select metals, volatile organics and PAH compounds. (See Figures 1, 2 and 3) The test results are shown in Tables 1, 2 and 3. The results show exceedances of direct contact criteria for several PAH compounds.

Because of the known site history no groundwater testing was done.

Based on the direct contact concerns a 2 foot clean soil barrier was required for the property. In the fall of 2004 Terra Engineering was hired to place 18 inches of clean soil fill on the property and cover this fill with 6 inches of topsoil. The site was seeded and fertilized in the spring of 2005. Surveying was done to insure proper soil depths. Maintenance of the soil barrier was to be required through a deed restriction placed on the property and recorded with Dane County. However, now the intention would be to use the new closure protocol and have the cap maintenance requirement included and enforced through the closure letter. With completion of the soil cap and maintenance plan, this can be closed

FINAL CLOSURE APPROVED

Steve Ales *Stephen M. Ales 6/20/06*

Pat McCutcheon

Pat McCutcheon 6/20/2006



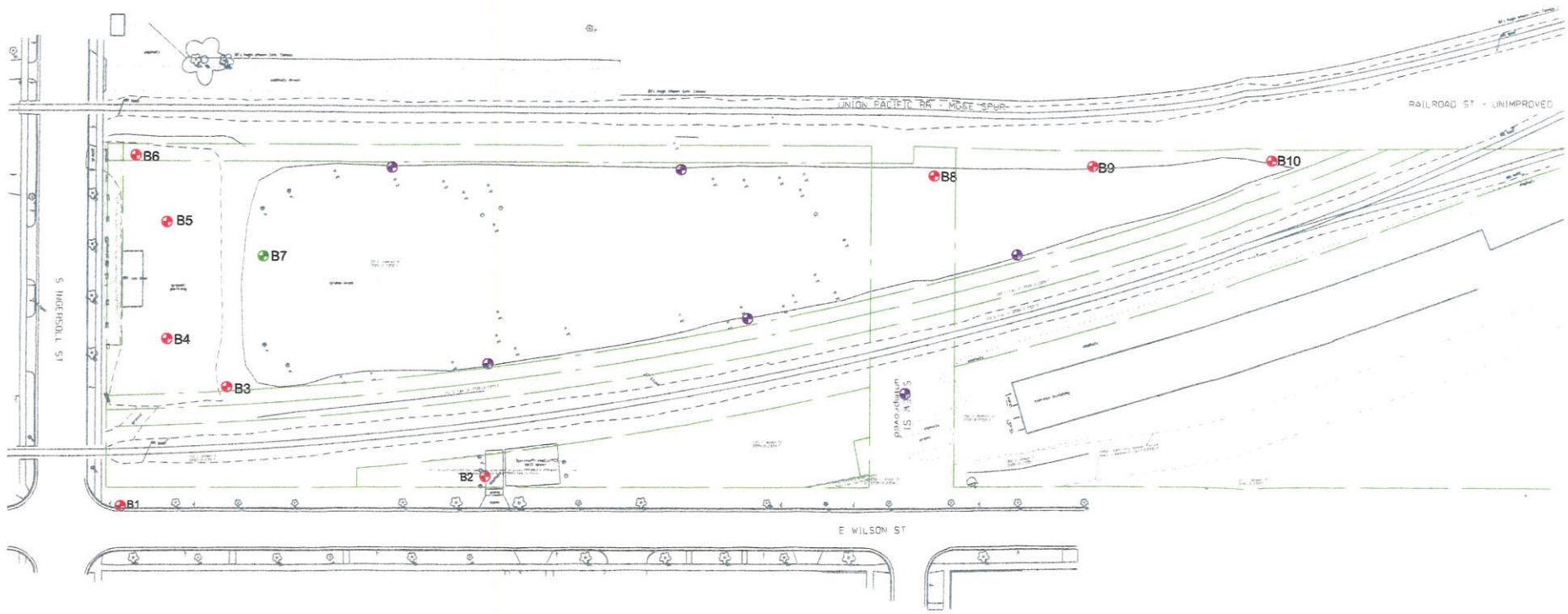
Additional Information for 201 South Ingersoll Street

The 201 South Ingersoll parcel has had previous environmental investigations and cleanup activities from 1988 (i.e. the year the LUST was identified) to March 2006, when the Soil Cover Maintenance Plan was approved. Soil excavation and a simple pump and treat system were operated to address impacts from the LUST until closure in 1997.

Property history discussed in a 1998 environmental report indicated the parcel was likely filled to grade after 1940, and was leased to a manufacturing facility that made culvert pipe. This facility had a tar-dipping structure for dipping culvert joints. Subsequent research identified a Sinclair Oil petroleum bulk storage facility, leaking USTs, buried foundry material underlying portions of the site along South Ingersoll Street, and refuse material underlying portions of the southwest corner of the property.

In 2000, soil samples were collected from the upper 3 ft of soil and tested for several metals, volatile organic compounds, and PAH compounds. The results showed direct contact exceedances for several PAH compounds and lead. Based on the direct contact concerns, a 2 ft clean soil barrier was required for the property and was installed in Fall 2004. The soil cap consisted of 18 inches of clean soil and 6 inches of topsoil. The Maintenance Plan requires certain actions in the event that the underlying soils become exposed to workers, or if the underlying soils are excavated from the site. The Maintenance Plan requires written WDNR approval for amending or modification of the Plan. A copy of the Plan is included with the WisDOT Site Summary form in Attachment B.

- ⊕ COMBINED PHASE II AND GEOTECH
- ⊕ GEOTECH
- ⊕ PHASE II



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 DEVELOPMENT - ENVIRONMENTAL
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ENGINEERING CONSULTANTS

PROJECT	NO. 2010-001	DATE	REV.	BY
PROJECT NO.	2010-001	DATE	REV.	BY
SCALE	AS SHOWN	DATE	REV.	BY
DATE	1-10-10	DATE	REV.	BY
BY	JUL	DATE	REV.	BY

FIGURE 2 - SOIL BORING LOCATIONS
 CENTRAL PARK
 CITY OF MADISON
 DANE COUNTY

Phase 2 Soil Borings July 2010

TABLE 1
Soil Sample Analytical Results
Proposed Central Park
Madison, Wisconsin

Analyte	Depth (ft bgs)	Sampling Date	Benzene	Ethyl- benzene	Toluene	m & p- Xylenes	o - Xylenes	1,2,4- TMB	1,3,5- TMB	MTBE	Naph thalene	Tert-Butyl benzene
NR 720 GRCLS			0.0055	2.9	1.5	4.1	4.1					
NR 746 Table 1 SSLs			8.5	4.6	38	42	42	83	11			
NR 746 Table 2 Direct Contact			1.1									
B1	3.5-5.5	5/11/2010	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B2	1-3	5/11/2010	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B3	1-3	5/12/2010	<0.025	<0.025	<0.025	<0.05	<0.025	0.0469	0.0376	<0.025		
B3	8.5-10.5	5/12/2010	<0.025	<0.025	0.122	0.0794	<0.025	0.346	<0.025	<0.025		
B4	1-3	5/12/2010	<0.025	<0.025	<0.025	<0.05	0.0331	0.0542	0.0583	<0.025		
B4	6-8	5/12/2010	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025		
B5	1-3	5/12/2010	0.0555	0.0359	0.147	0.121	0.892	0.0928	0.0442	<0.025		
B5	6-8	5/12/2010	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025		
B6	1-3	5/12/2010	0.0412	0.07	0.199	0.235	0.185	0.151	0.079	<0.025		
B6	6-8	5/12/2010	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025		
B7	3.5-5.5	5/12/2010	<0.025	<0.025	0.0794	0.0726	0.0604	0.071	<0.025	<0.025	0.209	0.0321
B8	3.5-5.5	5/11/2010	0.0825	0.0704	0.057	<0.05	0.129	0.482	0.476	<0.025		
B8	6-8	5/11/2010	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025		
B9	1-3	5/11/2010	<0.025	<0.025	<0.025	<0.05	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025
B9	3.5-5.5	5/11/2010	<0.025	<0.025	<0.025	<0.05	0.034	0.132	0.063	<0.025	0.19	0.0587
B10	1-3	5/12/2010	<0.0321	0.142	0.0504	0.316	0.176	1.02	0.831	<0.0321		
Container		5/12/2010	<0.025	<0.025	<0.025	<0.05	<0.025	0.075	<0.025	<0.025		

TABLE 1
Soil Sample Analytical Results
Proposed Central Park
Madison, Wisconsin

Analyte	Sampling Date	1-Methyl Naphthalene	2-Methyl Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
Guidance GRCLs Direct Contact		70000/1100	70000/600	60000/900	360/18	300000/5000	3.9/0.0888	0.39/0.088	3.9/0.088	39/1.8
Guidance GRCLs Groundwater		23	20	38	0.7	3000	17	48	360	6800
B1	3.5-5.5 5/11/2010	0.0219	0.0279	0.0059	0.0108	0.0193	0.028	0.0249	0.0201	0.0186
B2	1-3 5/11/2010	0.0637	0.0822	0.003	0.0061	0.027	0.0494	0.0515	0.0566	0.0449
B3	1-3 5/12/2010	0.146	0.214	0.0089	0.0126	0.045	0.0885	0.102	0.103	0.0883
B3	8.5-10.5 5/12/2010	<0.0032	<0.0032	<0.0029	<0.0033	0.0052	<0.0029	<0.0034	<0.0036	<0.0027
B6	1-3 5/12/2010	0.0859	0.115	0.0046	0.0168	0.0387	0.0802	0.0902	0.09	0.0789
B6	6-8 5/12/2010	<0.0032	<0.0032	<0.0029	<0.0033	<0.0049	<0.003	<0.0034	<0.0036	<0.0028
B8	3.5-5.5 5/11/2010	0.276	3.08	<0.0297	0.0604	0.235	0.529	0.579	1.27	0.614
B8	6-8 5/11/2010	<0.0032	<0.0032	<0.003	<0.0034	<0.0049	<0.003	>0.0035	<0.0037	0.0028
B9	1-3 5/11/2010	<0.0029	<0.0029	<0.0027	<0.003	<0.0044	<0.0027	<0.0031	<0.0033	<0.0025
B9	3.5-5.5 5/11/2010	0.144	0.168	0.0064	0.0239	0.0424	0.0802	0.0846	0.0856	0.0803

Analyte	Sampling Date	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
Guidance GRCLs Direct Contact		39/0.88	390/8.8	0.39/0.0088	40000/600	40000/600	3.9/0.088	110/20	390/18	30000/500
Guidance GRCLs Groundwater		870	37	38	500	100	680	0.4	1.8	8700
B1	3.5-5.5 5/11/2010	0.0247	0.0312	<0.0061	0.0685	0.0093	0.0138	0.184	0.0675	0.0657
B2	1-3 5/11/2010	0.0519	0.0931	0.0136	0.088	<0.0047	0.0353	0.0548	0.107	0.102
B3	1-3 5/12/2010	0.102	0.115	0.0272	170	0.0101	0.0726	0.0863	0.203	0.14
B3	8.5-10.5 5/12/2010	<0.0039	<0.0038	<0.0056	<0.0104	<0.0052	<0.0029	0.0068	<0.0046	<0.0038
B6	1-3 5/12/2010	0.096	0.107	0.0254	0.181	0.0046	0.0634	0.0792	0.172	0.141
B6	6-8 5/12/2010	<0.0039	<0.0038	<0.0057	<0.0105	<0.0052	<0.003	<0.0037	<0.0046	<0.0038
B8	3.5-5.5 5/11/2010	0.591	2.38	0.212	0.693	0.0983	0.487	0.318	5.03	0.716
B8	6-8 5/11/2010	<0.0039	<0.0039	<0.0058	<0.0106	<0.0053	<0.003	<0.0037	<0.0047	<0.0039
B9	1-3 5/11/2010	<0.0035	<0.0035	<0.0052	<0.0096	<0.0046	<0.0027	<0.0033	<0.0042	<0.0035
B9	3.5-5.5 5/11/2010	0.145	0.135	0.0273	0.134	0.0068	0.0659	0.157	0.33	0.121

Soil Sample Analytical Results
Proposed Central Park
Madison, Wisconsin

Analyte			Sampling Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury	GRO
GRCLs Direct Contact - Non-Industrial				0.039		8	16,000	50				
GRCLs Direct Contact - Industrial				1.6		510		500				
B-1	3.5-5.5	5/11/2010	5.3	123	0.086	16.6	12.1	<0.22	0.23			
B-2	1-3	5/11/2010	2.7	12.7	0.74	5.7	13.7	<0.17	0.24			
B3	1-3	5/12/2010	9.2	161	0.68	15.9	36.7	0.18	0.38	0.085		
B3	8.5-10.5	5/12/2010	2.5		0.21		7.6					
B4	1-3	5/12/2010	17.7	90.8	2.5	22.3	758	0.69	0.58	0.37		
B4	6-8	5/12/2010	5		0.072		5.2					
B5	1-3	5/12/2010	4.8	22.6	0.3	5.8	27	0.44	0.2	0.021		
B5	6-8	5/12/2010	10.5		0.21		6.9					
B6	1-3	5/12/2010	7.3	22.5	0.84	13.2	20.4	0.18	0.29	0.012		
B6	6-8	5/12/2010	8.8		0.11		8.1					
B8	3.5-5.5	5/11/2010	21.6	44.6	<0.32	9.5	114	<2.0	1.2	0.066		
B9	1-3	5/11/2010	3.9	79.7	0.21	10.8	8.8	<0.17	0.12	0.032		
B9	3.5-5.5	5/11/2010	6.9		0.46		349					
B10	1-3	5/12/2010	6.7	35.9	0.095	14.8	131	2.4	0.85	0.077		
Container		5/12/2010					3.2					13.8

Notes: Concentrations in mg/Kg
 GRCLs = NR 720 generic residual contaminant levels
 GRCLs for PAHs are from WDNR Interim Guidance, Publication RR-519-97
 SSLs = Soil Screen Levels
 Bold numbers indicated concentrations exceeding the GRCLs, SSLs or the NR 746 Table 2 values
 GRCLs with "/" indicate the GRCLs for industrial property and residential properties, respectively.
 Only compounds detected are included in Table. Refer to lab report for complete list of results.

TABLE 2
Groundwater Sample Analytical Results
Proposed Central Park
Madison, Wisconsin

Location	Date	Benzene	Ethyl- benzene	MTBE	Toluene	Total Tri- methyl- benzene	Total Xylene
NR 140 ES		5	700	60	1000	480	10000
NR 140 PAL		0.50	140	12	200	96	1000
B1	5/11/2010	<0.39	<0.41	<0.38	0.58	<0.83	<1.3
B2	5/11/2010	<0.41	<0.54	<0.61	<0.67	<1.8	<2.63
B3	5/12/2010	<0.39	<0.41	<0.38	<0.42	<0.83	<1.3
B4	5/12/2010	<0.39	<0.41	<0.38	<0.42	<0.83	<1.3
B6	5/12/2010	<0.39	<0.41	<0.38	<0.42	<0.83	<1.3
B8	5/11/2010	<0.39	<0.41	<0.38	0.58	<0.83	<1.3
B10	5/12/2010	<0.39	<0.41	<0.38	0.56	2.9	<1.3

Analyte	Sampling Date	Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
NR 140 ES		10	2000	5	100	15	50	50	2
NR 140 PAL		1	400	0.5	10	1.5	10	10	0.2
B1	5/11/2010	30.7	526	0.66	1.2	1.8	2.1	0.54	<0.1
B2	5/11/2010	2.1	160	0.79	1.1	<1.4	3.1	<0.46	<0.1
B6	5/12/2010	10.8	218	0.82	0.53	6.8	<2.1	<0.46	<0.1
B8	5/11/2010	8.5	145	4.2	4.6	3.4	<2.1	<0.46	<0.1
B10	5/12/2010	2.1	60.7	0.62	2.6	<2.8	<4.2	<0.92	<0.2

TABLE 2
Groundwater Sample Analytical Results
Proposed Central Park
Madison, Wisconsin

Analyte	Sampling Date	1-Methyl Naphthalene	2-Methyl Naphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene
NR 140 ES						3000		0.2	0.2	
NR 140 PAL						600		0.02	0.02	
B1	5/11/2010	0.032	0.04	0.025	0.023	0.062	0.17	<i>0.18</i>	0.23	0.17
B2	5/11/2010	0.012	0.014	<0.0046	<0.0039	0.0082	0.0097	0.0078	0.0095	0.0094
B4	5/12/2010	0.021	0.03	0.0074	<0.0041	0.018	0.019	<i>0.019</i>	<i>0.024</i>	0.021
B6	5/12/2010	<0.0072	0.0062	<0.0065	<0.0052	<0.0082	<0.0052	<0.0041	<0.0049	<0.0069
B8	5/11/2010	0.0087	0.024	<0.005	<0.004	0.0087	0.013	0.011	<i>0.021</i>	0.016
B10	5/12/2010	0.031	0.051	<0.019	0.02	0.061	0.18	0.21	0.5	0.35

Analyte	Sampling Date	Benzo(k)fluoranthene	Chrysene	Dibenzo(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
NR 140 ES			0.2		400	400		100		250
NR 140 PAL			0.02		80	80		20		50
B1	5/11/2010	0.17	<i>0.19</i>	0.043	0.46	0.04	0.14	0.069	0.36	0.34
B2	5/11/2010	0.0091	0.011	<0.0035	0.027	0.0064	0.0062	0.029	0.039	0.021
B4	5/12/2010	0.021	0.019	0.0079	0.049	0.011	0.017	0.041	0.061	0.041
B6	5/12/2010	<0.0063	0.007	<0.0046	<0.0063	<0.0068	<0.0067	0.02	<0.012	<0.0068
B8	5/11/2010	0.017	<i>0.023</i>	0.0045	0.038	0.008	0.011	0.025	0.072	0.031
B10	5/12/2010	0.28	0.24	0.093	0.3	0.02	0.25	0.062	0.22	0.25

Concentrations for PVOCs are in ug/L.

Bold numbers indicate concentrations above the NR 140 Enforcement Standard

Italics numbers indicated concentrations above the NR 140 Preventive Action Limit.

Attachment C
Brearly Block Environmental Impacted Areas
Former Byrns Oil at 211 S. Brearly Street

WisDOT Phase 1 Hazardous Materials Assessment Site Summary
(rev. 10/7/2005)

WisDOT Project ID: 5992-01-95
Highway/Street: Proposed Central Park
Termini/Limits: Brearly Street to Baldwin Street, City of Madison
County: Dane

Property Information:

Site Name(s): Former Byrns Oil (a.k.a 211 South Brearly Street)
DOT parcel number (if known):
Property Address: 215 South Brearly Street
Owner's Name: City of Madison
Owner's Address: 210 Martin Luther King Jr. Blvd , Madison, WI 53710
Owner's Phone:
Current Land Use: vacant
Past Land Use: Petroleum Bulk Plant

Real Estate Requirements: The City of Madison owns the parcel

- None Total take Strip acquisition of _____ feet
 Temporary Limited Easement (TLE)
 Permanent Limited Easement (PLE)
 Other (describe)

Construction Requirements:

- Excavation within current right of way to up to 5 ft feet
 Excavation within proposed right of way to _____ feet
 Excavation within easement to _____ feet
 Public or private utility or sanitary or storm sewer installation or excavation to _____ feet

Information from database searches and interviews:

Department of Commerce (DCOMM)

- site has registered tanks ASTs USTs
 tanks are currently in use
 tanks are abandoned date: 10/1988

Tank contents:

- Leaded gasoline Unleaded gasoline Fuel Oil Diesel
 Kerosene Unknown Other (describe)

site is a DCOMM administered LUST site; DCOMM ID number:

site is a closed DCOMM LUST site; closure date:

Department of Natural Resources (DNR)

- site is a DNR administered LUST site; BRRTS number: 03-13-001971
 site is a DNR administered ERP site; BRRTS number:
 site is a closed LUST ERP site; closure date:
 site is a landfill
 site is an abandoned waste disposal site
 site is a hazardous waste generator
 Other (please describe)

Sanborn Maps: site is a petroleum bulk plant on maps dated 1942-1986. Comments:

WisDOT historic plan sets: site is a _____ on project _____ dated _____. Comments:

Business directories: site is a _____ in the directory dated _____. Comments:

A check in a checkbox indicates a positive or "yes" response.

Aerial photos: site is a _____ on photo dated _____. Comments:

Contamination discovered at 3 to 4 feet during utility or other excavation in the area. Indicate location on site map.

Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)

No evidence of tanks

USTs ASTs Location, number and condition of tanks, contents, comments:

Location in relationship to current right of way: map attached

Location in relationship to proposed right of way: map attached

Drums Stained soils Odor Sheen on surface water Areas of excavation

Areas of fill Stressed vegetation Pond(s) Basins/sumps Monitoring wells

Soil borings

Comments: drums and monitoring wells observed during site visit

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).

Property is a potential source of contamination

Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information.

Contaminated soil known to be within proposed right of way from 3 feet to 10 feet below ground surface (on the 215 S Brearly parcel)

Contaminated groundwater known to be within proposed right of way at 2 to 10 feet below ground surface. (on the 215 S Brearly parcel, 3-4 ft. average)

Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required

Site photographs and a site map showing areas of concern

Plat map showing parcel and any proposed areas of acquisition or easement

Historic aerial photos of site - clearly outline site

Historic WisDOT or other as-builts and plat maps - clearly outline site

Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations: Additional soil remediation activities have been performed in 2011. The extent of petroleum contamination is known. Special provisions will be prepared at the time final plans are developed.

No additional hazardous materials investigation is required.

If construction or real estate requirements change, evaluation of need for further investigation will be necessary.

Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.

Conduct additional investigation

Phase 2 (determine if contamination is present)

Phase 2.5 (determine extent of contamination within existing R/W only)

Phase 3 (determine full extent of contamination prior to acquisition)

Phase 4 (remediate site)

Other (describe)

Prepared by: MSA Professional Services, Inc. on 2/9/2012

Recommendations accepted by (name and title): _____, on _____

Signature: _____

DATE: July 6, 2010

TO: File

FROM: WJ Wojner

SUBJECT: Byrns Properties Ltd. 211 South Brearly, Madison
 Closure Request Dated: GIS for Soil and Groundwater and CAP
 High Risk Factors: Free Product
 Acres available for redevelopment: 1.5

*Most recent
evaluation*

FILE REF: 03-13-001971

The site was denied closure in October 2002.

Byrns Properties Ltd, 211 Brearly, Madison [03-13-001971] – The site formerly held up to 21 tanks (17 ASTs and 4 USTs). Two of the ASTs were removed in 7/71 and the rest (both the ASTs and USTs) were all removed by 10/88. The SI showed that soil and groundwater contamination was present so in 3/98 they excavated approximately 4400 tons of petroleum contaminated soil. (Depth of the excavation was to about 7.5 ft bgs) At the time of the excavation they pumped out about 14,110 gallons of contaminated groundwater. After the excavation they also used a vacuum truck to suck out contaminated water and vapors. This has removed another few hundred pounds of contamination. Unfortunately they didn't collect confirmation samples after completing the excavation. And, the data from MW-6 appears to have jumped up recently. *We denied closure and requested they: A. Either provide soil confirmation samples or collect soil samples showing what remains. B. Sample wells MW-2, MW-6 and MW-18 for another round of groundwater samples. Afr-1.5.*

The water table at the site varies from 2-10 feet bgs. Flow is variable. Average conductivity is 1.8×10^{-4} cm/sec. Average depth to water table is 3-4 feet. Water table is mostly in fill of coal cinders or ash, sand to about 6 feet followed by peat in a couple of the boring logs.

They backfilled the excavation bottom with 1 foot of fill followed by 3 inches of gravel and then put a geotextile material over it followed by sand to 1 foot bgs. They installed four sumps and removed free product (2525 gallons) and 49,810 gallons of groundwater after 11/98. The use of vacuum truck extraction was employed in 1/00 and they conducted 11 extraction events.

There are still sumps present at the site but they were not sampled in 9/09.

There were 16 soil probes performed in 9/09 to characterize the 0-4 foot bgs soils for petroleum and PAH (naphthalene). Levels of concern were observed at G-7, G-10, G-13, G-15 and G-16.

Free Product remains at MW-16 with about 3 feet present at the last sampling.

Recommendations: Address the free product possibly by excavating an area around MW-16 or better characterizing the contamination in that vicinity. Evaluate the significance of the soil contamination in this area of high groundwater. Determine whether groundwater sampling of the sumps would provide useful information. If the free product can be dealt with I am recommending the site for closure with a GIS registry listing for soils, groundwater and a cap maintenance plan. The site has notified the right of way and there may be a lost monitoring well on a neighboring property that will have to be considered.

Approved: YES NO

Linda Hanefeld _____ date:

GEOPROBE DATA TABLE FOR BYRNS PROPERTIES, LTD BRRTS# 03-13-001971
BY METCO

SAMPLING CONDUCTED ON SEPTEMBER 9, 2009

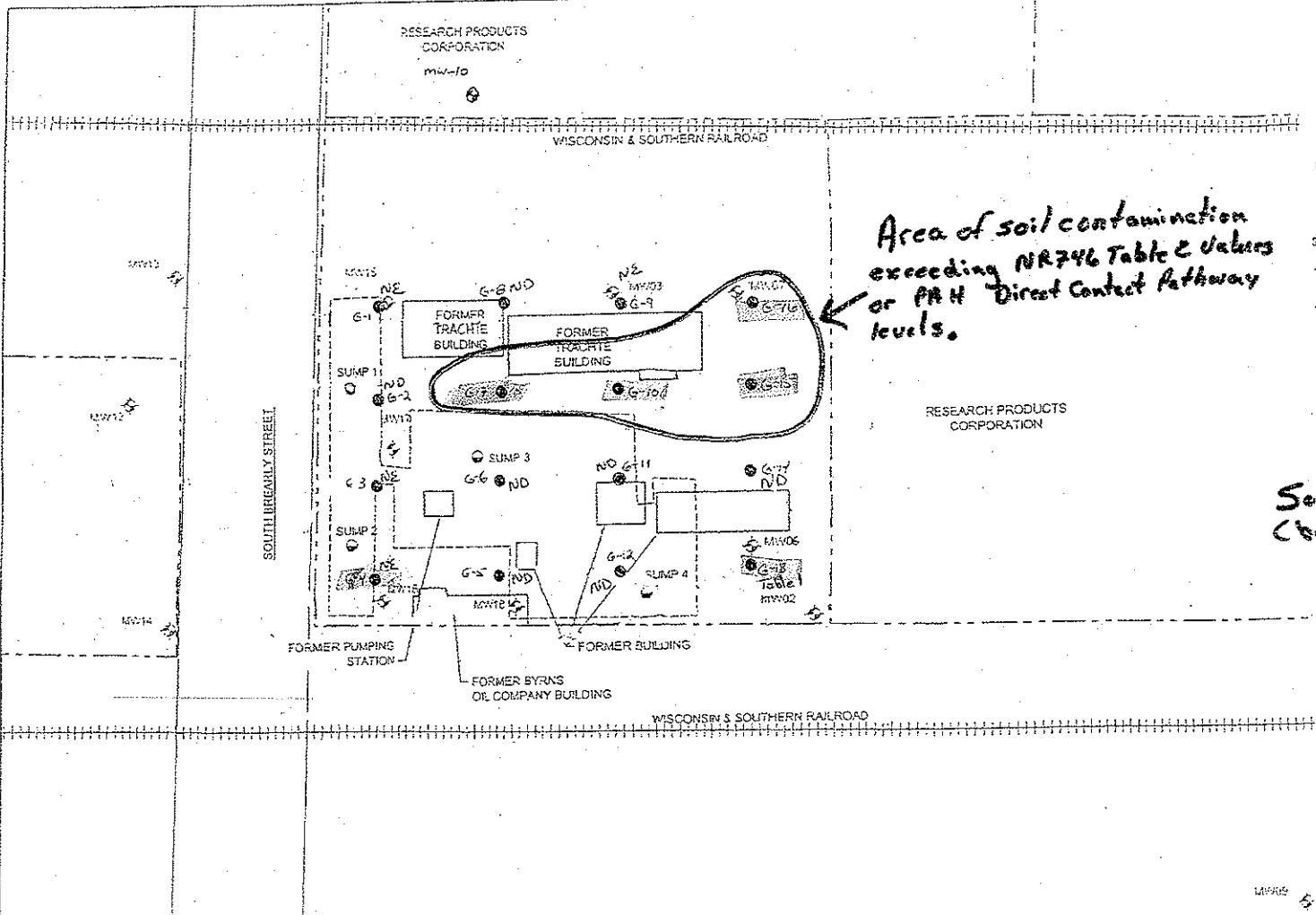
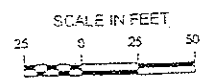
SOIL SAMPLES	G-1	G-2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	G-14	G-15	G-16	MEOH BLANK	
Sample Location Number	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	==	
Sample Depth in Feet																		
Soil Type	SAND GRAVEL	SAND GRAVEL	SAND GRAVEL	COAL ASH/ SLAG	COAL ASH/ SLAG	SAND GRAVEL	COAL ASH	SAND GRAVEL	SAND COAL WOOD	SAND GRAVEL	SAND GRAVEL	SAND GRAVEL	SAND GRAVEL	SAND COAL ASH	SAND GRAVEL	SAND GRAVEL	==	
Petroleum Odors	NO	NO	YES	NO	YES	NO	YES	NO	NO	YES	NO	NO	YES	NO	NO	NO	==	
Petroleum Staining	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	YES	NO	NO	NO	==	
Moisture	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	DRY	MOIST/ WET	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	DRY/ MOIST	MOIST/ WET	DRY/ MOIST	DRY/ MOIST	==	
HNU in Units	0	0	100	0	30	0	35	0	0	250	0	0	270	0	0	0	==	
Solids Percent	94.1	96.1	88	95.6	88.5	92.7	76	94.6	93.4	88.7	90.3	88.8	91.2	83.5	89.4	78.9	ns	
Benzene/ppb	<25	<25	<25	180	<25	<25	3080	<25	<25	1040	<25	<25	<250	<25	<25	146	<25	
Ethylbenzene/ppb	<25	<25	<25	600	<25	<25	2810	<25	<25	3050	<25	<25	19900	<25	28.2	160	<25	
Methyl-tert-butyl ether/ppb	<25	<25	<25	<25	<25	<25	<25	<25	<25	<250	<25	<25	<250	<25	<25	<25	<25	
Toluene/ppb	<25	<25	<25	316	<25	<25	1140	<25	<25	480	<25	<25	4700	<25	35	560	<25	
1,2,4-Trimethylbenzene/ppb	<25	<25	<25	2270	<25	<25	10400	<25	<25	3700	<25	<25	85000	<25	38	180	<25	
1,3,5-Trimethylbenzene/ppb	<25	<25	28.4	460	<25	<25	2220	<25	<25	1520	<25	<25	31200	<25	<25	99	<25	
m & p-Xylene/ppb	<50	<50	<50	1380	<50	<50	10000	<50	<50	2510	<50	<50	27400	<50	<50	420	<50	
o-Xylene/ppb	<25	<25	<25	440	<25	<25	1010	<25	<25	1130	<25	<25	28200	<25	<25	210	<25	
Acenaphthene/ppb	<19	<19	<19	<19	<19	<19	99	<19	<19	890	<19	<19	1280	<19	42 "J"	20.7 "J"	ns 900	
Acenaphthylene/ppb	14.1 "J"	<11	<11	<11	<11	<11	45	<11	<11	147	<11	<11	288	<11	17.2 "J"	46	ns 18	
Anthracene/ppb	<19	<19	<19	29.5 "J"	<19	<19	59 "J"	<19	23.7 "J"	550	<19	<19	380	<19	<19	76	97	ns 5000
Benzo(a)anthracene/ppb	<16	<16	<16	26.4 "J"	<16	<16	84	<16	30.8 "J"	630	<16	<16	<32	<16	48 "J"	202	ns 0.088	
Benzo(a)pyrene/ppb	<25	<25	<25	<25	<25	<25	66 "J"	<25	<25	590	<25	<25	<50	<25	32 "J"	186	ns 0.088	
Benzo(b)fluoranthene/ppb	<18	<18	<18	19.6 "J"	<18	<18	96	<18	44 "J"	740	<18	<18	<36	<18	45 "J"	271	ns 0.088	
Benzo(g,h,i)perylene/ppb	62	<19	<19	<19	<19	<19	55 "J"	<19	28.2 "J"	340	<19	<19	<38	<19	26.6 "J"	124	ns 1.8	
Benzo(k)fluoranthene/ppb	<16	<16	<16	<16	<16	<16	22.6 "J"	<16	<16	289	<16	<16	<32	<16	<16	68	ns 0.88	
Chrysene/ppb	<18	<18	<18	35 "J"	<18	<18	94	<18	38 "J"	590	<18	<18	<36	<18	51 "J"	254	ns 8.8	
Dibenzo(a,h)anthracene/ppb	<22	<22	<22	<22	<22	<22	<22	<22	<22	105	<22	<22	<44	<22	<22	47 "J"	ns 0.088	
Fluoranthene/ppb	<13	<13	<13	75	<13	<13	146	<13	58	1760	<13	<13	109	<13	86	320	ns 600	
Fluorene/ppb	<8.3	<8.3	15.6 "J"	<8.3	<8.3	<8.3	30.5	<8.3	<8.3	1290	<8.3	<8.3	1870	<8.3	55	21 "J"	ns 600	
Indeno(1,2,3-cd)pyrene/ppb	32 "J"	<12	<12	<12	<12	<12	41	<12	22.6 "J"	301	<12	<12	<24	<12	20.8 "J"	107	ns 0.088	
1-Methylnaphthalene/ppb	40 "J"	<15	16.5 "J"	77	<15	<15	3600	<15	192	4100	<15	<15	12400	<15	1140	680	ns 1100	
2-Methylnaphthalene/ppb	47 "J"	<17	<17	74	<17	<17	4200	<17	210	720	<17	<17	4900	<17	2570	890	ns 600	
Naphthalene/ppb	23.7 "J"	<13	<13	46	<13	<13	1840	<13	109	670	<13	<13	3300	<13	2250	316	ns 2.8	
Phenanthrene/ppb	22.6 "J"	<14	24.9 "J"	239	<14	<14	390	<14	157	3500	<14	<14	4900	<14	350	850	ns 18	
Pyrene/ppb	<15	<15	<15	69	<15	<15	156	<15	51	1670	<15	<15	277	<15	98	350	ns 500	

NOTE: Bold = detects NS = NOT SAMPLED
J Flag: Analyte detected between LOD and LOO

Area of soil contamination exceeding NR746 Table 2 values or PAH Direct Contact Pathway levels.

- LEGEND**
- MON15 MONITORING WELL LOCATION
 - SUMP 1 SUMP LOCATION & IDENTIFICATION
 - - - - - APPROXIMATE EXTENT OF W SOIL EXCAVATION
 - PROPERTY BOUNDARY
 - ND = No Laboratory Detects
 - NE = Laboratory Detects - No Exceedence
 - Table 1 = Table 1 value exceedence

Soil Contamination Map
(based on soil sampler collected on 9/9/09)



MADISON GAS & ELECTRIC BUILDING
(1043 EAST WILSON STREET)

Northern Environmental
Hydrologists • Engineers • Scientists • Solutions
12073 Noyak Corporate Parkway, Suite 210, Maquoket, Wisconsin 53401
Phone: 800-776-7140 Fax: 262-241-8122

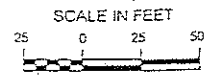
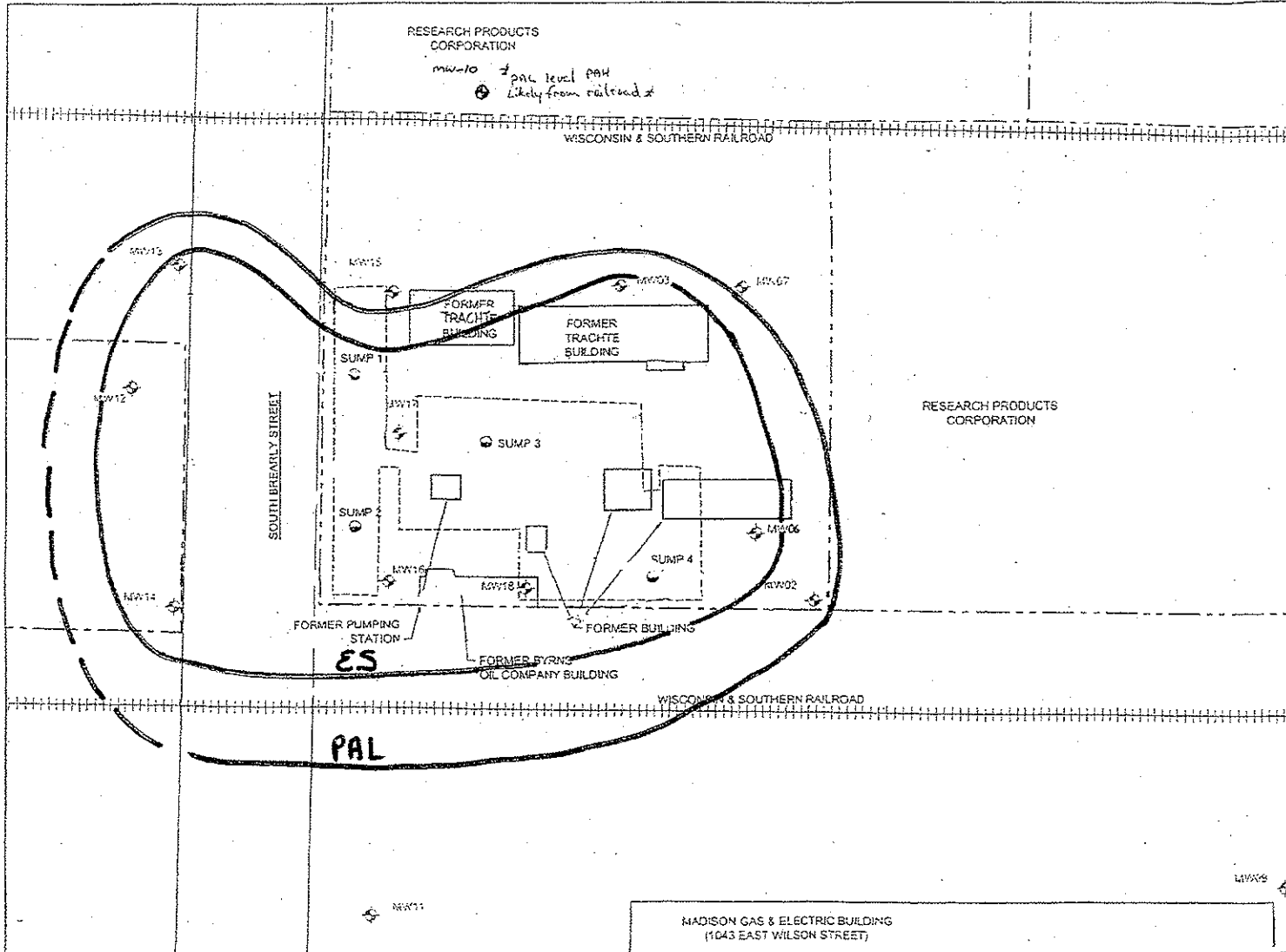
WISCONSIN • MICHIGAN • ILLINOIS • IOWA

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DATE: 10/12/09 PROJECT: BYRNS PROPERTY SITE DRAWN BY: RMP TALK: TALKER

Modified by Metro 10/12/09
Site Layout Map - Byrns Property, etc.

211 SOUTH BREARLY STREET
MADISON, WISCONSIN



Northern EnvironmentalTM
Hydrologists • Engineers • Surveyors • Scientists
12075 North Corporate Parkway, Suite 210, Mequon, Wisconsin 53092
Phone: 800-776-7146 Fax: 262-241-8222

Modified by METCO 10/6/09
Groundwater Contaminant Plume
map - September 14, 2009

WISCONSIN • MICHIGAN • ILLINOIS • IOWA

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211 SOUTH BREARLY STREET
MADISON, WISCONSIN

TABLE 1

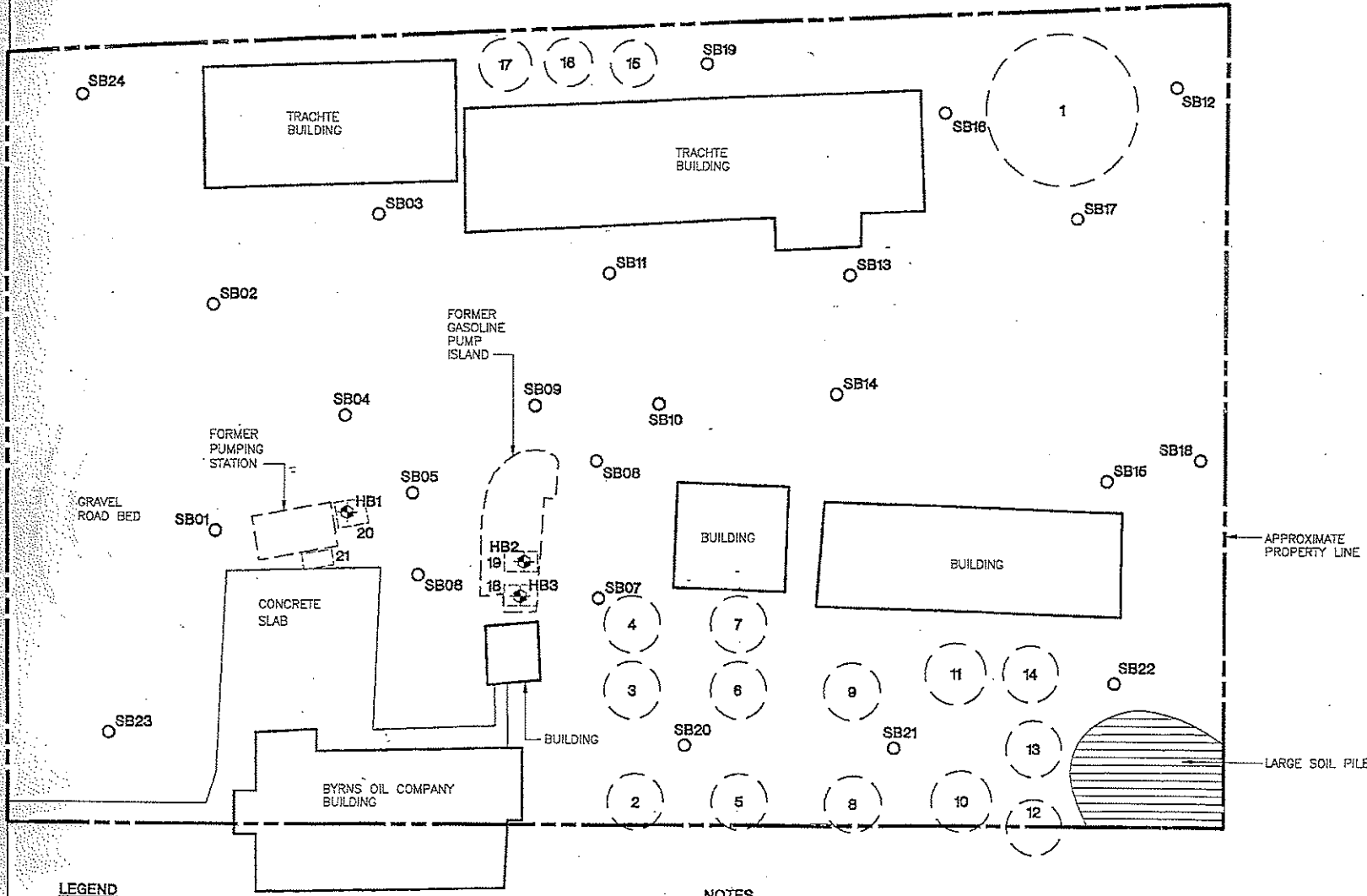
Summary of Tank Sizes and Contents
 Byrns Properties Ltd.
 211 South Brearly Street
 Madison, Wisconsin

<u>Above Ground Tanks</u>		
<u>Tank No.</u>	<u>Size in Gallons</u>	<u>Contents</u>
1	127,000	Fuel Oil
2	25,000	Fuel Oil
3	25,000	Fuel Oil
4	25,000	Fuel Oil
5	25,000	Fuel Oil
6	25,000	Fuel Oil
7	25,000	Leaded Gasoline
8	12,500	Unleaded Gasoline
9	12,500	Leaded Gasoline
10	12,500	Fuel Oil
11	30,000	Fuel Oil
12	29,600	Fuel Oil
13	17,000	Fuel Oil
14	17,000	Leaded Gasoline
15	2,000	Lube Oil
16	2,000	Lube Oil
17	5,000	Lube Oil
<u>Underground Ground Tanks</u>		
<u>Tank No.</u>	<u>Size in Gallons</u>	<u>Contents</u>
18	500	Fuel Oil
19	1,000	Diesel
20	1,000	Leaded Gasoline
21	2,000	Leaded Gasoline

MCB/vlr/MGC
 JA10013602\WPYTBL099_TBLE1.WPD
 10013602/159-MD-D1

QUALITY CONTROL
 Lead Professional MCB
 7-28-94
 Technical Review MGC
 B-3-94
 Project Manager
 Management Review
 Other

SOUTH BREARLY STREET

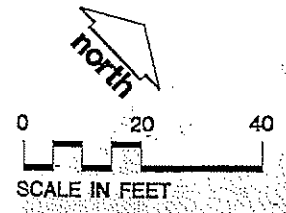


LEGEND

- HB3
HAND AUGER BORING LOCATION AND NUMBER
- SB23
GEOPROBE SOIL AND GROUNDWATER SAMPLE LOCATION AND NUMBER
- 18
FORMER LOCATION AND NUMBER OF UNDERGROUND PETROLEUM STORAGE TANK
- 9
FORMER LOCATION AND NUMBER OF ABOVE GROUND PETROLEUM STORAGE TANK

NOTES

1. BASE MAP DEVELOPED FROM SURVEY PERFORMED BY D'ONOFRIO KOTTKE AND ASSOCIATES, INC., JANUARY 7, 1988.
2. HAND AUGER BORINGS HB1, HB2, AND HB3 PERFORMED BY WARZYN INC. ON JUNE 3 AND 7, 1993.
3. GEOPROBE^(TM) BORINGS SB01 THROUGH SB24 PERFORMED BY GZA GEO ENVIRONMENTAL, UNDER THE SUPERVISION OF WARZYN INC. ON APRIL 18 AND 19, 1994.
4. LOCATIONS OF HAND AUGER AND GEOPROBE BORINGS ARE APPROXIMATE.



SOIL AND GROUNDWATER SAMPLE LOCATION MAP
 SOIL AND GROUNDWATER INVESTIGATION
 BYRNS PROPERTIES LTD.
 211 SOUTH BREARLY STREET
 MADISON, WISCONSIN

Developed By: SGW
 Drawn By: JSL/OLF
 Approved By: *Joseph C. Byrns* Date: 8.11.94
 Reference:
 Revisions:

Drawing Number
 10013602 B1

WARZYN

Table 5

Extent of Excavation Soil Samples
Byrns Properties Ltd.
211 South Brearly
Madison, Wisconsin

Base of Excavation	GRO	DRO	Total Lead	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,3,5-TMB	1,2,4-TMB
FLR01	2500	4500	16	6.5	12	27	52	243	35	120
FLR02	1500	5200	11.9	3.3	X	X	22	76	18	61
FLR03	270	920	NA	X	0.71	X	3.8	14	4.8	12
FLR04	420	1800	NA	X	X	X	2	8.8	7	14
FLR05	150	1400	NA	X	0.11	X	0.34	1.37	0.6	3.4
FLR06	240	830	NA	X	X	0.15	0.58	1.27	0.95	6.0
FLR07	230	1900	NA	0.14	0.085	X	0.28	1.34	0.89	4.5
FLR08	1200	4400	NA	X	X	X	2.1	14	16	40
FLR09	1000	1900	NA	X	X	X	2.1	6.2	9.6	24
FLR10	460	3200	NA	X	X	0.17	0.92	1.6	2.3	8.6
FLR11	8.1	9.1	NA	X	X	X	0.034	X	X	0.12
FLR12	630	2000	NA	X	0.79	X	1.1	2.6	3.0	9.8
Truckloads Removed from Site										
0-300 yds	1000	3200	NA	X	18	X	4.1	10.3	3.5	11
300-600 yds	1300	9100	NA	X	6	X	2.3	1.6	5.3	12
600-900 yds	27	36	NA	X	0.54	0.44	0.79	2.12	0.39	1.3
900-1200 yds	1100	1600	12	X	X	X	2	2.38	5.1	14
1200-1500 yds	290	1000	12.4	X	X	X	0.43	X	1.2	4.2
1500-1800 yds	540	3200	20.7	X	X	X	1.1	1.22	4.6	9.6
1800-2100 yds	890	13000	NA	1.4	14	0.46	2.8	8.4	1.4	24
2100-2400 yds	1500	3800	NA	X	X	X	3.6	4.6	3.7	8.6
2400-2700 yds	280	21000	NA	0.29	2.4	X	0.91	2.7	0.85	5.2
2700-3000 yds	120	600	NA	0.44	7.4	X	1.8	4.4	1.4	17

Notes:

1. All concentrations reported in mg/kg.
2. X = Analyzed, but not detected.
3. NA = Not analyzed.
4. SW01 - SW37 collected at a depth of 7.5 ft.
5. FLR samples collected from base of excavation at a depth of 7.5 ft.
6. TMB = Trimethylbenzene

3/98

Table 5

Extent of Excavation Soil Samples
Byrns Properties Ltd.
211 South Brearly
Madison, Wisconsin

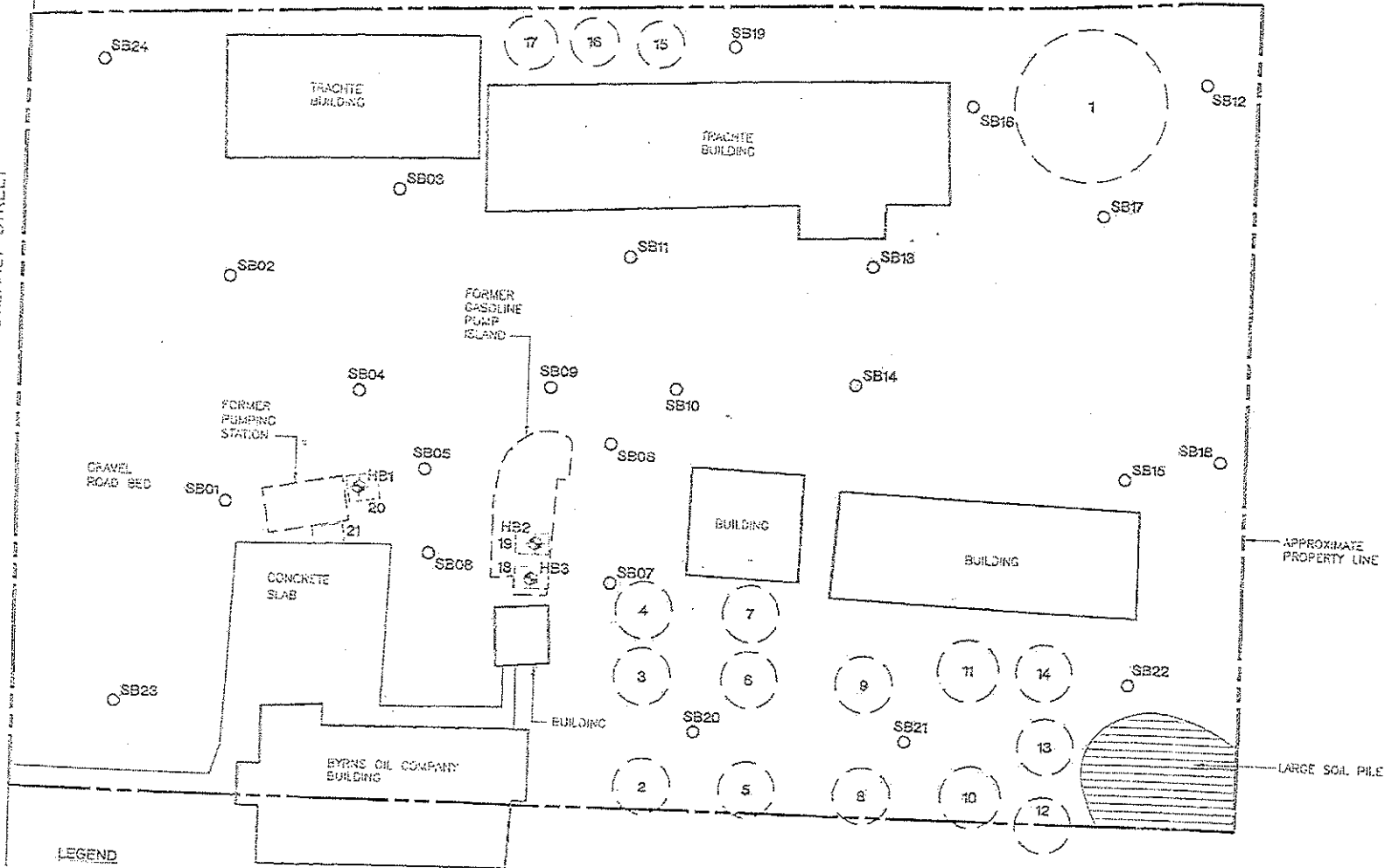
*didn't analyze
for Naph or PAHs*

ppm

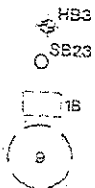
	GRO	DRO	Total Lead	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	1,3,5-TMB	1,2,4-TMB
Sidewall Samples		NR 796	Table 1		8.5	38	4.6	42	11	83
SW01	450	7200	NA	X	X	0.76	1.7	3.79	1.8	3.8
SW02	12	14	NA	X	X	X	0.14	0.28	0.13	0.48
SW03	X	1.9	NA	X	X	X	X	X	X	X
SW04	X	X	NA	X	X	X	X	X	X	X
SW05	1200	2900	7.05	X	0.43	X	3.5	4.57	14	19
SW06	770	3400	4.39	X	X	X	X	2.6	4.4	10
SW07	X	X	2.22	X	X	X	X	X	X	X
SW08	X	X	1.33	X	X	X	0.034	0.078	X	0.03
SW09	7.1	X	3.5	X	0.19	0.065	0.14	0.381	0.086	0.47
SW10	64	160	NA	X	0.051	X	0.22	0.753	0.24	0.84
SW11	X	1.9	NA	X	X	X	X	X	X	X
SW12	2100	3100	NA	X	X	X	55	160	53	180
SW13	2.8	2.2	NA	X	0.072	X	0.054	0.098	X	0.092
SW14	540	1800	NA	X	X	X	2.4	4.3	X	20
SW15	1400	7600	NA	X	1.2	X	3.6	9.91	7.6	17
SW16	1400	7000	NA	X	5.4	X	7.7	16	5.9	28
SW17	3500	14000	NA	X	X	X	76	97	9.3	380
SW18	1000	2800	NA	X	0.71	X	3.3	8.3	6.0	22
SW19	480	240	NA	0.56	13	0.64	5.1	8.45	1.3	5.3
SW20	1500	7500	NA	0.46	6.7	X	6.1	8.3	10	20
SW21	3.2	82	NA	X	0.21	X	0.16	0.089	X	0.077
SW22	160	1000	NA	X	0.77	0.04	1.0	1.5	1.8	3.7
SW23	3500	24000	NA	X	17	X	9.2	6.4	13	22
SW24	250	4600	NA	X	0.97	X	3.4	4.5	0.98	17
SW25	250	260	NA	X	2.2	0.22	7.1	6.46	1.2	5.8
SW26	3900	9000	NA	2.0	29	X	130	99.5	5.5	73
SW27	1300	33000	NA	X	6.9	X	3.3	8.2	3	16
SW28	1200	24000	NA	X	X	X	X	4.3	3.4	12
SW29	2000	5700	NA	X	X	X	X	0.47	0.65	1.3
SW30	960	22000	NA	X	4.8	X	2.5	5.5	3.3	11
SW31	1500	13000	NA	X	2.6	X	3.1	9.2	3.9	18
SW32	820	1300	NA	X	X	X	X	1.8	1.6	9.7
SW33	970	7000	NA	X	1.9	X	3.8	9	5.7	18
Test Pit Samples										
SW34	X	15	NA	X	X	X	X	X	X	X
SW35	14	59	NA	X	X	0.1	0.069	0.25	0.23	0.21
SW36	X	120	NA	X	X	X	X	X	X	X
SW37	4.6	X	NA	X	X	X	X	X	X	X

U.S.T.

SOUTH BREARLY STREET



LEGEND



HB3
HAND AUGER BORING LOCATION AND NUMBER

SB23
GEOPROBE SOIL AND GROUNDWATER SAMPLE LOCATION AND NUMBER

15
FORMER LOCATION AND NUMBER OF UNDERGROUND PETROLEUM STORAGE TANK

9
FORMER LOCATION AND NUMBER OF ABOVE GROUND PETROLEUM STORAGE TANK

NOTES

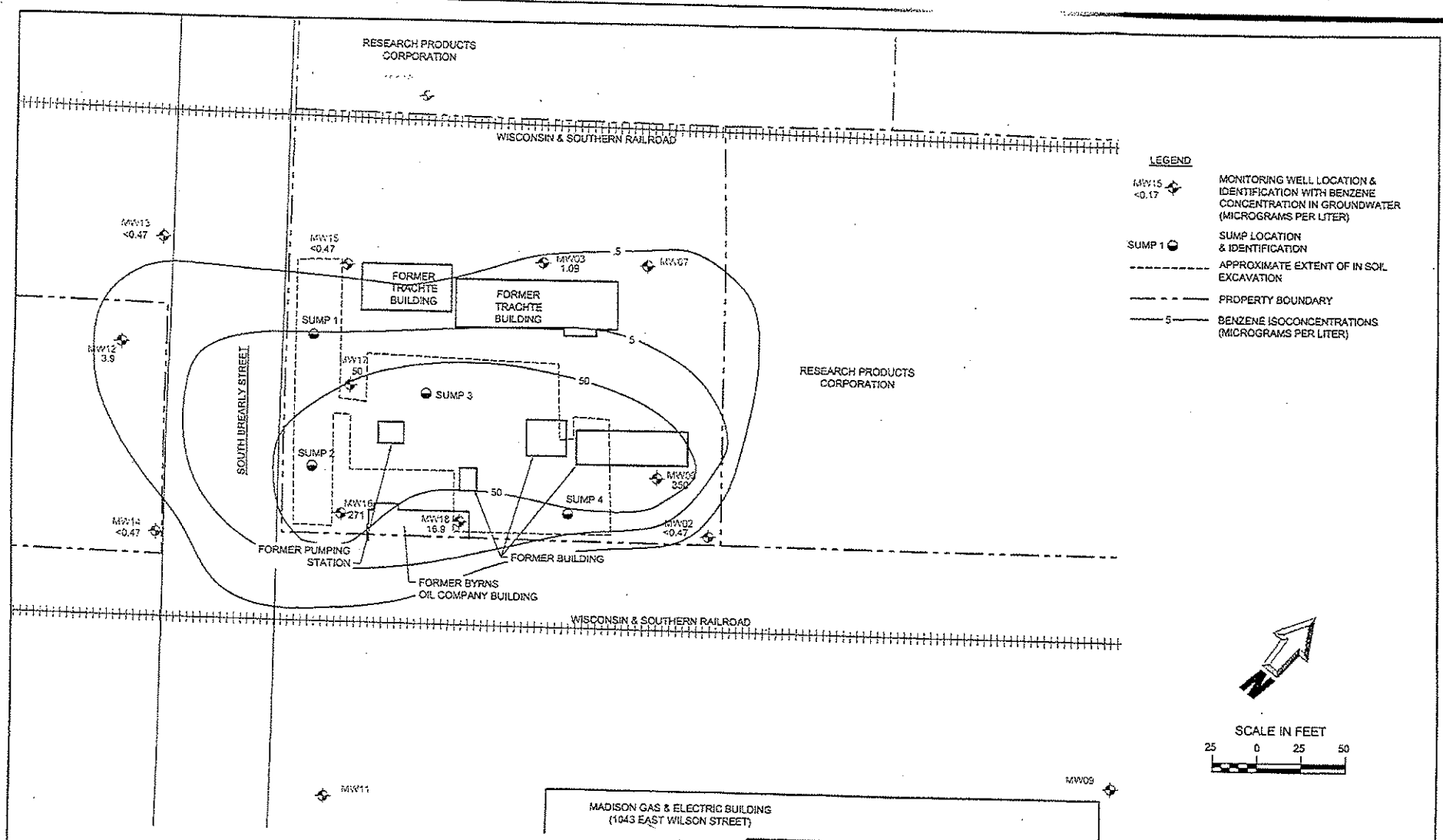
1. BASE MAP DEVELOPED FROM SURVEY PERFORMED BY D'ONOFRIO KOTIME AND ASSOCIATES, INC., JANUARY 7, 1983.
2. HAND AUGER BORINGS HB1, HB2, AND HB3 PERFORMED BY WARZYN INC. ON JUNE 3 AND 7, 1983.
3. GEOPROBE (TM) BORINGS SB01 THROUGH SB24 PERFORMED BY GEA GEO ENVIRONMENTAL, UNDER THE SUPERVISION OF WARZYN INC. ON APRIL 18 AND 19, 1984.
4. LOCATIONS OF HAND AUGER AND GEOPROBE BORINGS ARE APPROXIMATE.

WARZYN INC. 100133602
 PROJECT NO. 100133602
 SHEET NO. 1 OF 1
 DATE: 10/15/84
 DRAWN BY: JSL/DLF
 CHECKED BY: JSL/DLF
 APPROVED BY: JSL/DLF
 PROJECT: BYRNS OIL COMPANY
 ADDRESS: 211 SOUTH BREARLY STREET
 MADISON, WISCONSIN

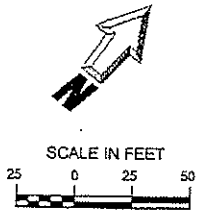
SOIL AND GROUNDWATER SAMPLE LOCATION MAP
 SOIL AND GROUNDWATER INVESTIGATION
 BYRNS PROPERTIES LTD
 211 SOUTH BREARLY STREET
 MADISON, WISCONSIN

100133602

WARZYN



- LEGEND**
- MW15 <0.17
 - SUMP 1
 - APPROXIMATE EXTENT OF IN SOIL EXCAVATION
 - PROPERTY BOUNDARY
 - 5 --- BENZENE ISOCONCENTRATIONS (MICROGRAMS PER LITER)
 - MONITORING WELL LOCATION & IDENTIFICATION WITH BENZENE CONCENTRATION IN GROUNDWATER (MICROGRAMS PER LITER)
 - SUMP LOCATION & IDENTIFICATION



MADISON GAS & ELECTRIC BUILDING
(1043 EAST WILSON STREET)

Northern EnvironmentalSM
Hydrologists • Engineers • Surveyors • Scientists
12075 North Corporate Parkway, Suite 210, Mequon, Wisconsin 53092
Phone: 800-776-7140 Fax: 262-241-8222

WISCONSIN • MICHIGAN • ILLINOIS • IOWA

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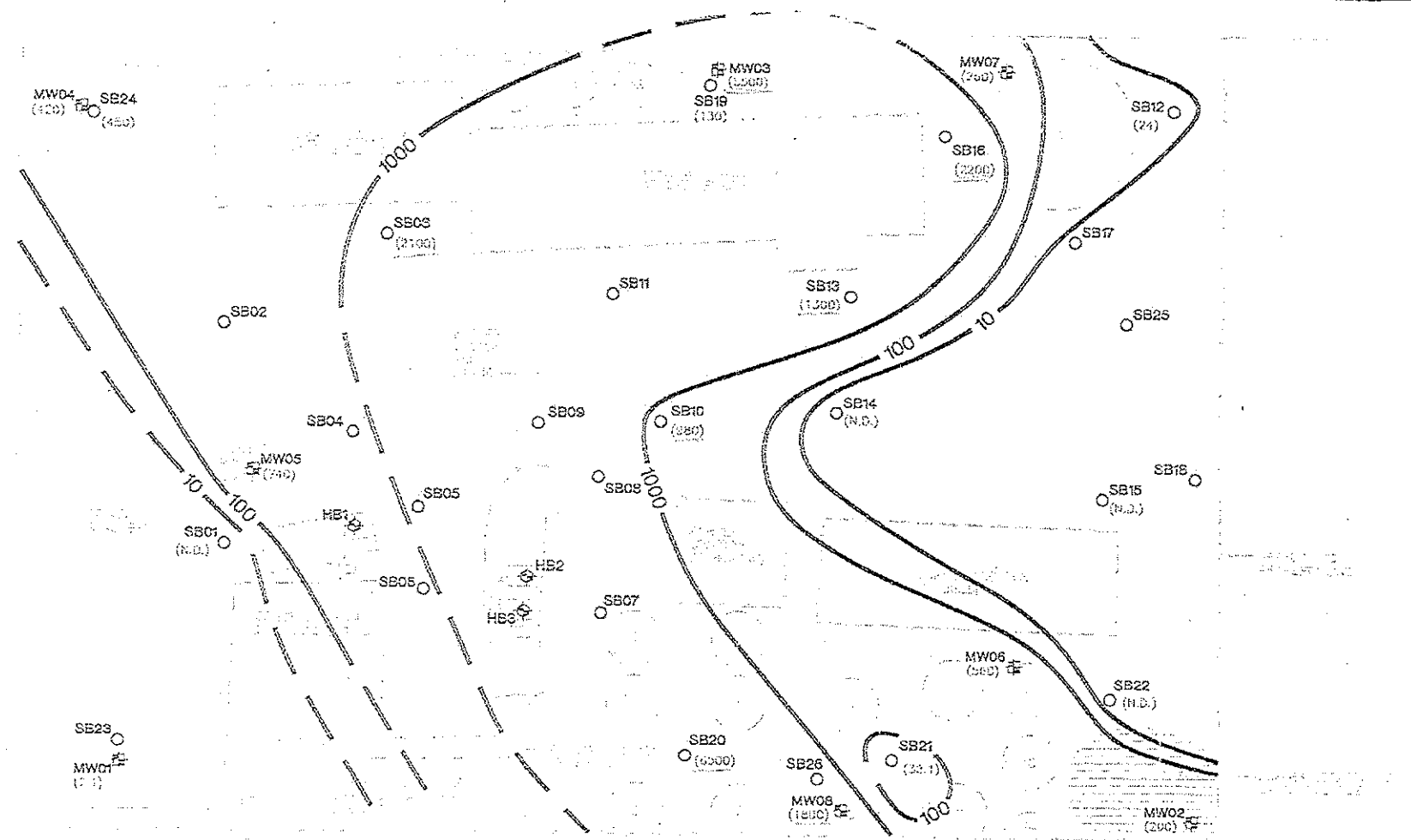
DATE: 02/28/07 DRAWN BY: BMP TASK NUMBER: 1

EXTENT OF BENZENE IN GROUNDWATER
FEBRUARY 28, 2007

211 SOUTH BREATLY STREET
MADISON, WISCONSIN

PROJECT NUMBER: 01/01/2007/2007 FIGURE: 1

COUNTY OF MONROE, MISSISSIPPI
 DEPARTMENT OF ENVIRONMENTAL QUALITY
 DIVISION OF SOIL AND WATER RESOURCES
 1000 EAST PROGRESS AVENUE
 JACKSON, MISSISSIPPI 39201
 PROJECT NUMBER: 03-23-93
 DATE: 01-27-94
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]

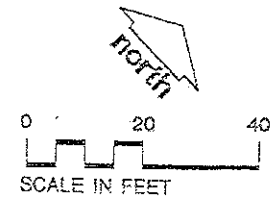


LEGEND

- MWCS (5500) MONITORING WELL LOCATION, NUMBER AND DRG CONCENTRATION IN UNSATURATED SOIL (mg/kg)
- HB3 HAND AUGER BORING LOCATION AND NUMBER
- SB01 (N.D.) GEOPROBE SOIL AND GROUND-WATER SAMPLE LOCATION, NUMBER AND DRG CONCENTRATION IN UNSATURATED SOIL (mg/kg) (N.D. - NO DETECTION)
- FORMER LOCATION AND NUMBER OF UNDERGROUND PETROLEUM STORAGE TANK
- 100 ISOCONCENTRATION OF DRG CONCENTRATIONS IN UNSATURATED ZONE SOILS (mg/kg) (CONTOUR INTERVAL VARIES, DASHED WHERE INFERRED)
- FORMER LOCATION AND NUMBER OF ABOVE GROUND PETROLEUM STORAGE TANK

NOTES

1. REFER TO DRAWING 3572.0011-B1 FOR ADDITIONAL NOTES.
2. DRG CONCENTRATIONS BASED ON FIELD GC ANALYSIS FOR ALL SB SAMPLES COLLECTED ON APRIL 15 AND 19, 1994 EXCEPT SB01, SB03, SB10, SB12, SB20, AND SB22 WHERE LABORATORY ANALYSIS FOR DRG IS REPORTED.
3. DRG CONCENTRATIONS REPORTED FOR MW01 THROUGH MW08 WERE COLLECTED ON JANUARY 9 AND 10, 1995.



Drawings by: SCW
 Date: 1/23/94
 Approved by: [Signature]
 Date: 5/1/95
 Reference: [Signature]

DRG CONCENTRATION IN UNSATURATED ZONE SOILS
 BYRNS PROPERTIES LTD.
 211 SOUTH BRADLEY STREET
 MADISON, WISCONSIN

Project Number: 3572.0011 B5
 MONTGOMERY WATSON

Waterable Elevations Table
 Byrns Properties, LTD LUST Site BRRTS# 03-13-001971
 Madison, Wisconsin

pvc top (ft)	MW-2 850.93	MW-3 850.72	MW-6 851.40	MW-7 850.95	MW-9 854.25	MW-10 850.70	MW-11 854.74	MW-12 851.21	MW-13 851.30	MW-14 851.62	MW-15 850.91	MW-16 851.77	MW-17 851.04	MW-18 851.40
Date														
4/7/2005	848.51	848.14	848.30	848.10	847.42	NI	847.33	847.93	847.91	847.18	847.55	842.80	847.28	846.80
7/14/2005	844.52	846.23	844.01	846.38	843.49	845.50	843.63	846.34	846.34	844.74	846.52	842.14	846.47	843.76
8/16/2006	847.25	847.81	846.48	847.76	854.25	846.78	846.24	847.72	847.72	847.14	847.03	842.42	846.94	845.35
11/9/2006	847.04	847.31	845.95	847.26	845.96	846.26	846.09	847.38	847.38	846.81	847.36	842.95	847.37	845.81
2/28/2007	846.89	846.87	846.26	NM	NM	846.15	846.92	847.75	847.78	846.52	846.89	843.97	846.90	845.70
5/22/2007	847.67	847.78	847.40	847.74	846.65	NM	NM	847.61	847.84	847.11	847.92	844.35	849.83	846.94
9/27/2007	847.65	847.70	847.14	847.68	846.93	844.73	845.77	845.07	845.68	847.09	846.41	847.02	847.63	847.01
11/28/2007	846.17	846.94	845.48	846.50	CNL	845.89	844.08	845.49	846.34	845.18	846.43	FP	846.66	844.65
9/14/2009	844.86	846.45												

Note: Elevations are presented in feet mean sea level (msl).
 CNL = Could Not Locate
 NI = Not Installed
 NM = Not Measured
 FP = Free Product Present

GROUNDWATER SAMPLING DATA TABLE FOR BYRNS PROPERTIES, LTD BRRTS# 03-13-001971
BY METCO

WELL SAMPLING CONDUCTED ON SEPTEMBER 14, 2009

Well Name	MW-2	MW-3	MW-6	MW-7	MW-9	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16	MW-17	MW-18	SUMP-1	SUMP-2	SUMP-3	SUMP-4	TRIP BLANK	
PVC Casing Elevation in Feet (MSL)	850.93	850.72	851.40	850.95	854.25	850.70	854.74	851.21	851.30	851.62	850.91	851.77	851.04	851.40	==	==	==	==	==	
Watertable Elevation in Feet (MSL)	844.86	846.45	845.06	846.50	COULD	845.89	844.08	845.49	846.34	845.18	846.43	851.77	846.66	844.65	==	==	==	==	==	
Depth to Groundwater in Feet	6.07	4.27	6.34	4.45	NOT	4.81	10.66	5.72	4.96	6.44	4.48	36" FP	4.38	6.75	4.57	4.29	5.26	4.64	==	
Amount Purged in Gallons	2	2	2	0	LOCATE	2	2	2	2	2	2	3	2	2	==	==	==	==	==	
Time to Purge in Minutes	5	5	5	0	==	5	5	5	5	5	5	20	5	5	==	==	==	==	==	
Purged Dry?	NO	NO	NO	NO	==	YES	NO	NO	NO	NO	NO	NO	NO	NO	==	==	==	==	==	
Color	CLEAR	YELLOW	YELLOW	TAN	==	BROWN	CLEAR	GRAY	GRAY	GRAY	CLEAR	CLEAR	CLEAR	GRAY	==	==	==	==	==	
Petroleum Odors	YES	YES	YES	NO	==	NO	NO	YES	YES	YES	YES	YES	YES	YES	==	==	==	==	==	
Petroleum Sheens	YES	YES	YES	NO	==	NO	NO	YES	YES	YES	YES	YES	NO	YES	==	==	==	==	==	
Turbidity (high, medium, low, clear)	LOW	LOW	LOW	LOW	==	HIGH	LOW	LOW	LOW	LOW	LOW	LOW	LOW	MEDIUM	==	==	==	==	==	
Benzene/ppb	< 0.45	7.5	350	< 0.45	ns	< 0.45	< 0.45	4.2	< 0.45	6.6	< 0.45	125	46	11.2	ns	ns	ns	ns	< 0.45	
Ethylbenzene/ppb	< 0.76	< 0.76	96 "J"	< 0.76	ns	< 0.76	< 0.76	4.5	0.94 "J"	2.48	0.83 "J"	< 38	0.90 "J"	24.8	ns	ns	ns	ns	< 0.76	
Methyl tert-butyl ether (MTBE)/ppb	< 0.42	< 0.42	< 21	< 0.42	ns	< 0.42	< 0.42	1.33	< 0.42	< 0.42	< 0.42	< 21	16.9	< 0.42	ns	ns	ns	ns	< 0.42	
Toluene/ppb	< 0.53	< 0.53	< 26.5	< 0.53	ns	< 0.53	< 0.53	2.89	< 0.53	3.06	1.19 "J"	< 26.5	1.24 "J"	13.5	ns	ns	ns	ns	< 0.53	
1,2,4-Trimethylbenzene/ppb	< 0.52	< 0.52	238	< 0.52	ns	< 0.52	< 0.52	34	9.8	21.5	< 0.52	440	0.70 "J"	22.8	ns	ns	ns	ns	< 0.52	
1,3,5-Trimethylbenzene/ppb	< 0.61	< 0.61	< 30.5	< 0.61	ns	< 0.61	< 0.61	24.8	4.5	10.9	< 0.61	71 "J"	< 0.61	16.9	ns	ns	ns	ns	< 0.61	
m&p-Xylene/ppb	< 0.84	1.13 "J"	79 "J"	< 0.84	ns	< 0.84	< 0.84	8.5	< 0.84	4.3	1.48 "J"	44 "J"	< 0.84	9.7	ns	ns	ns	ns	< 0.84	
o-Xylene/ppb	< 0.74	< 0.74	< 37	< 0.74	ns	< 0.74	< 0.74	5.3	1.33 "J"	1.99 "J"	1.12 "J"	< 37	1.91 "J"	6.8	ns	ns	ns	ns	< 0.74	
Acenaphthene/ppb	0.09	0.26	31	< 0.009	ns	0.04	0.07	83	69	3800	40	8000	1.59	285	ns	ns	ns	ns	ns	
Acenaphthylene/ppb	0.04	0.026 "J"	12.3	< 0.011	ns	0.019 "J"	< 0.011	15.3	24	830	5	3400	0.242 "J"	58	ns	ns	ns	ns	ns	
Anthracene/ppb	0.06	0.03	17.6	0.011 "J"	ns	0.04	0.015 "J"	23.1	31.5	1570	15	3900	< 0.2	91	ns	ns	ns	ns	ns	
Benzo(a)anthracene/ppb	0.027 "J"	< 0.017	1.95 "J"	< 0.017	ns	0.08	< 0.017	5.8	10.4	161	1.72 "J"	< 340	< 0.34	4.6 "J"	ns	ns	ns	ns	ns	
Benzo(a)pyrene/ppb	0.022 "J"	< 0.014	< 1.4	< 0.014	ns	0.14	< 0.014	3.9 "J"	7.2	87	< 1.4	< 280	< 0.28	< 2.8	ns	ns	ns	ns	ns	
Benzo(b)fluoranthene/ppb	0.034 "J"	< 0.018	< 1.8	< 0.018	ns	0.24	< 0.018	5.6 "J"	10.7	129	< 1.8	< 360	< 0.36	< 3.6	ns	ns	ns	ns	ns	
Benzo(g,h,i)perylene/ppb	0.06	< 0.018	< 1.8	< 0.018	ns	0.2	< 0.018	2.32 "J"	4.9 "J"	47 "J"	< 1.8	< 360	< 0.36	< 3.6	ns	ns	ns	ns	ns	
Benzo(k)fluoranthene/ppb	< 0.029	< 0.029	< 2.9	< 0.029	ns	0.074 "J"	< 0.029	< 2.9	3.8 "J"	< 58	< 2.9	< 580	< 0.58	< 5.8	ns	ns	ns	ns	ns	
Chrysene/ppb	0.03	< 0.01	1.79 "J"	< 0.01	ns	0.14	0.011 "J"	5.6	9.6	191	< 1	< 200	< 0.2	5.9 "J"	ns	ns	ns	ns	ns	
Dibenzo(a,h)anthracene/ppb	< 0.019	< 0.019	< 1.9	< 0.019	ns	0.045 "J"	< 0.019	< 1.9	< 1.9	< 38	< 1.9	< 380	< 0.38	< 3.8	ns	ns	ns	ns	ns	
Fluoranthene/ppb	0.06	< 0.013	5.6	< 0.013	ns	0.2	0.029 "J"	18.4	34	790	3.06 "J"	690 "J"	< 0.26	29.5	ns	ns	ns	ns	ns	
Fluorene/ppb	0.033 "J"	0.17	40	0.013 "J"	ns	0.023 "J"	0.05	119	107	5000	47	14300	1.49	390	ns	ns	ns	ns	ns	
Indeno(1,2,3-cd)pyrene/ppb	0.025 "J"	< 0.019	< 1.9	< 0.019	ns	0.13	< 0.019	< 1.9	3.8 "J"	< 38	< 1.9	< 380	< 0.38	< 3.8	ns	ns	ns	ns	ns	
1-Methylnaphthalene/ppb	0.08	0.88	237	0.039 "J"	ns	0.09	0.08	260	9.1	6000	97	154000	44	1250	ns	ns	ns	ns	ns	
2-Methylnaphthalene/ppb	0.05 "J"	0.045 "J"	24.3	0.021 "J"	ns	0.11	0.038 "J"	6.6	12.3	232	4.3 "J"	141000	0.67 "J"	16.6	ns	ns	ns	ns	ns	
Naphthalene/ppb	0.08	0.31	44	< 0.024	ns	0.17	0.031 "J"	17.2	21.2	610	8.1	3050	0.76 "J"	41	ns	ns	ns	ns	ns	
Phenanthrene/ppb	0.12	0.04 "J"	102	0.025 "J"	ns	0.08	0.04 "J"	13.3	13.6	12100	12.8	29400	0.315 "J"	970	ns	ns	ns	ns	ns	
Pyrene/ppb	0.18	0.036 "J"	13.9	< 0.012	ns	0.18	0.028 "J"	33	66	1300	7.5	1120	< 0.24	77	ns	ns	ns	ns	ns	
MW-16																				
Density	0.8346																			
Viscosity	2.42																			
Water Surface Tension	59.3																			
NAPL Surface Tension	16.2																			
NAPL/Water Interfac, Tens.	25.3																			

NOTE: Bold = detects NS = NOT SAMPLED
J Flag: Analyte detected between LOD and LOQ

Groundwater Analytical Results Summary
 Byrns Properties, LTD LUST Site BRRS# 03-13-001971

Well MW-2
 PVC Elevation = 850.93 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	848.51	2.42	<0.50	<0.44	<0.48	NS	<0.32	<0.88	<0.78
7/14/2005	844.52	6.41	8.8	<0.5	<0.11	<1.2	<0.13	1.2	<1.9
8/16/2006	847.25	3.65	0.32	<1	<0.52	<0.73	<0.78	<1.95	<2.84
11/9/2006	847.04	3.89	4.3	<1	<0.52	<0.73	<0.78	<1.95	<2.84
2/28/2007	846.89	4.04	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
5/22/2007	847.67	3.26	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
9/27/2007	847.65	3.28	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
11/28/2007	846.17	4.76	<i>1.82</i>	<0.44	<0.53	0.62	<0.26	<0.67	<1.21
9/14/2009	844.86	6.07	<0.45	<0.76	<0.42	0.08	<0.53	<1.13	<1.58

Well MW-3
 PVC Elevation = 850.72 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	848.14	2.58	<i>1.80</i>	<0.22	<0.23	NS	0.12	<0.44	0.5
7/14/2005	846.23	4.49	<i>1.30</i>	<0.5	<0.11	<1.2	<0.13	1.2	<1.9
8/16/2006	847.81	2.91	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
11/9/2006	847.31	3.41	<i>3.30</i>	<1	<0.52	<0.73	<0.78	<1.95	<2.84
2/28/2007	846.87	3.85	<i>1.09</i>	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
5/22/2007	847.78	2.94	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
9/27/2007	847.70	3.02	<i>0.65</i>	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
11/28/2007	846.94	3.78	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
9/14/2009	846.45	4.27	<i>7.5</i>	<0.76	<0.42	0.31	<0.53	<1.13	1.13-1.87

Well MW-6
 PVC Elevation = 851.40 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	848.30	3.10	230	250	<23	NS	11	560	550
7/14/2005	844.01	7.39	590	300	72	120	40	550	550
8/16/2006	846.48	4.92	147	125	20.4	89	24.1	434	392
11/9/2006	845.95	5.45	191	360	<26	161	<39	829	661
2/28/2007	846.26	5.14	350	201	<26	<90	<23	524	216.5
5/22/2007	847.40	4.00	93	37	2.14	14.5	0.66	124	35.19
9/27/2007	847.14	4.26	159	30.5	<5.3	29.4	<2.6	222	54.6
11/28/2007	845.48	5.92	314	135	<26.5	126	<13	401	1927
9/14/2009	845.06	6.34	350	96	<21	44	<26.5	238-268.5	79-116

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
 Garrow Oil - Woody's Goodies LUST Site BRRTS# 03-71-000951

Byrus

Well MW-7
 PVC Elevation = 850.95 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	848.10	2.85	0.67	<0.22	<0.23	NS	<0.11	<0.44	<0.39
7/14/2005	846.38	4.57	<0.12	<0.5	<0.11	<1.2	<0.13	<1.11	<1.9
8/16/2006	847.76	3.19	0.44	<1	<0.52	<0.73	<0.78	<1.95	<2.84
11/9/2006	847.26	3.69	2.1	<1	<0.52	<0.73	<0.78	<1.95	<2.84
5/22/2007	847.74	3.21	0.71	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
9/27/2007	847.68	3.27	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
11/28/2007	846.93	4.02	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
9/14/2009	846.50	4.45	<0.45	<0.76	<0.42	<0.024	<0.53	<1.13	<1.58

Well MW-9
 PVC Elevation = 854.25 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.42	6.83	<0.25	<0.22	<0.23	NS	0.14	<0.44	<0.39
7/14/2005	843.49	10.76	<0.12	<0.5	<0.11	<1.2	<0.13	<1.11	<1.9
8/16/2006	854.25	8.92	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
11/9/2006	845.96	8.29	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
5/22/2007	846.65	7.60	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
11/28/2007	844.73	9.52	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
9/14/2009			COULD NOT LOCATE						

Well MW-10
 PVC Elevation = 850.70 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
7/14/2005	845.50	5.20	<0.12	<0.5	<0.11	<1.2	<0.13	<1.11	<1.9
8/16/2006	846.78	3.92	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
11/9/2006	846.26	4.44	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
5/22/2007	NM	NM	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
11/28/2007	845.77	4.93	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
9/14/2009	845.89	4.81	<0.45	<0.76	<0.42	0.17	<0.53	<1.13	<1.58

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
~~Garrow Oil - Woody's Goodies LUST Site BRRTS# 03-71-000954~~

Byrns

Well MW-11
 PVC Elevation = 854.74 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.33	7.41	<0.25	0.24	<0.23	NS	0.26	<0.44	0.754
7/14/2005	843.83	11.11	<0.12	<0.5	<0.11	<1.2	<0.13	<1.11	<1.9
8/16/2006	846.24	8.50	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
11/9/2006	846.09	8.65	<0.17	<1	<0.52	<0.73	<0.78	<1.95	<2.84
5/22/2007	846.92	7.82	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
11/28/2007	845.07	9.67	<0.22	<0.44	<0.53	<0.53	<0.26	<0.67	<1.21
9/14/2009	844.08	10.66	<0.45	<0.76	<0.42	0.031	<0.53	<1.13	<1.58

Well MW-12
 PVC Elevation = 851.21 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.93	3.30	<5.0	7.6	<4.6	NS	4	23	14
7/14/2005	846.34	4.93	7.7	4.8	1.7	13	2.3	13.9	6.3
8/16/2006	847.72	3.54	2.74	2.32	1.47	13.2	<0.78	8.92	4.9
11/9/2006	847.38	3.83	2.71	1.77	2.61	3.3	0.90	7.1	3.8
2/28/2007	846.91	4.30	3.9	1.87	1.59	<1.8	0.6	3.9	2.48
5/22/2007	847.75	3.46	<0.47	<0.38	0.58	<1.8	<0.46	<1.57	<0.99
9/27/2007	847.61	3.60	3.6	2.58	2.56	17.6	1.01	10.8	6.46
11/28/2007	845.68	5.53	2.86	2.53	3.11	23.1	1.12	4.4	4.77
9/14/2009	845.49	5.72	4.2	4.5	1.33	17.2	2.89	58.8	13.8

Well MW-13
 PVC Elevation = 851.30 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.91	3.37	<0.50	1	1.6	NS	0.38	<0.88	1.4
7/14/2005	846.34	4.96	1.1	<0.5	<0.11	3.7	<0.13	<1.11	<1.9
8/16/2006	847.72	3.58	0.95	<1	1.23	4.1	<0.78	<1.95	<2.84
11/9/2006	847.38	3.92	0.82	<1	<0.52	1.97	<0.78	1.67	<2.84
2/28/2007	846.87	4.43	<0.47	<0.38	0.57	<1.8	<0.46	<1.57	<0.99
5/22/2007	847.78	3.52	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
9/27/2007	847.84	3.46	0.46	<0.44	0.83	<0.53	<0.26	<0.67	<1.21
11/28/2007	847.09	4.21	0.54	<0.44	0.80	0.60	<0.26	<0.67	<1.21
9/14/2009	846.34	4.96	<0.45	0.94	<0.42	27.2	<0.53	14.3	1.33+2.13

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

Groundwater Analytical Results Summary
 Garrow Oil - Woody's Goodies LUST-Site BRRTS# 03-74-000951

Bjrus

Well MW-14
 PVC Elevation = 851.62 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.18	4.44	<2.5	5.5	<2.3	NS	<2.8	<10.2	37
7/14/2005	844.74	6.88	0.97	<0.5	<0.11	6.2	<0.13	0.78	<1.9
8/16/2006	847.14	4.48	1.62	<1	1.66	18.8	<0.78	2.3	<2.84
11/9/2006	846.81	4.81	1.42	3.6	<0.52	4	1.43	1.61	4.67
2/28/2007	846.52	5.10	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
5/22/2007	847.41	4.21	1.54	0.73	<0.52	<1.8	<0.46	2.48	1.14
9/27/2007	847.11	4.51	0.26	0.84	<0.53	9.1	0.72	<0.67	0.70
11/28/2007	846.41	5.21	<0.22	1.16	<0.53	11.8	2	1.62	5.87
9/14/2009	845.18	6.44	6.6	2.48	<0.42	610	3.06	32.4	6.29

Well MW-15
 PVC Elevation = 850.91 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.55	3.40	<0.50	<0.54	2.6	NS	0.3	<1.22	1.7
7/14/2005	846.52	4.43	<0.12	<0.5	<0.11	6.7	<0.13	3.6	<1.9
8/16/2006	847.03	3.92	0.61	<1	0.61	<0.73	<0.78	<1.95	<2.84
11/9/2006	847.36	3.55	<0.17	2.86	<0.52	2.32	<0.78	1.54	2.37
2/28/2007	846.89	4.02	<0.47	<0.38	1.86	<1.8	<0.46	<1.57	<0.99
5/22/2007	847.92	2.99	<0.47	<0.38	<0.52	<1.8	<0.46	<1.57	<0.99
9/27/2007	947.67	3.24	0.60	0.97	<0.53	5	1.05	<0.67	2.28
11/28/2007	847.02	3.89	<0.22	1.13	1.07	5.9	2.58	<0.67	1.69
9/14/2009	846.43	4.48	<0.45	0.83	<0.42	8.1	1.19	<1.13	2.61

Well MW-16
 PVC Elevation = 851.77 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	842.80	8.97	96	15	<9.2	NS	<4.4	350	69
7/14/2005	842.14	9.63	190	12	16	210	<1.3	435	85
8/16/2006	842.42	9.35	264	12.4	47	106	1.16	297.2	87.1
11/9/2006	842.95	8.82	247	14.1	14.6	23	<7.8	210	80.8
2/28/2007	843.97	7.80	271	7.6	<5.2	<18	<4.6	152	49.3
5/22/2007	844.35	7.42	231	8.4	<5.2	35	<4.6	305.1	49
9/27/2007	844.41	7.36	225	14.6	<5.3	48	<2.6	450	108.5
11/28/2007	843.75	8.02	183	22.4	<5.3	20.3	11.4	231	187
9/14/2009	NM	NM	125	<38	<21	3050	<26.5	511	44-81

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.

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 Garrow Oil - Woody's Goodies LUST Site BRRTS# 03-71-000954

Byrns

Well MW-17
 PVC Elevation = 851.04 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	847.28	3.76	81	0.73	11	NS	0.77	0.49	1.4
7/14/2005	846.47	4.57	130	<5	25	<12	<1.3	<10.11	<19
8/16/2006	846.94	4.10	94	<1	11.7	6.3	1.56	1.03	0.86
11/9/2006	847.37	3.67	51	3.3	14.2	<0.73	<0.78	<1.95	4.29
2/28/2007	846.90	4.14	50	<0.38	16	<1.8	<0.46	<1.57	<0.99
5/22/2007	849.83	1.21	61	<0.38	7.1	<1.8	<0.46	<1.57	<0.99
9/27/2007	847.63	3.41	145	3.2	18.8	7.7	151	<0.67	2.85
11/28/2007	847.02	4.02	46	0.99	11.5	5.9	1.15	<0.67	<1.21
9/14/2009	846.66	4.38	46	0.90	16.9	0.76	1.24	0.70-1.31	1.91+2.75

Well MW-18
 PVC Elevation = 851.40 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
4/7/2005	846.8	4.60	<50	160	<4.6	NS	3.4	212	49
7/14/2005	843.76	7.64	9.6	91	<1.1	29	<1.3	124	30
8/16/2006	845.35	6.05	22.1	177	<26	162	<39	280	152
11/9/2006	845.81	5.59	20.1	164	<5.21	34	<7.8	232	106
2/28/2007	845.7	5.70	16.9	122	<5.2	38	<4.6	239	70.4
5/22/2007	846.94	4.46	11.9	116	<5.2	53	<4.6	262.7	64.5
9/27/2007	847.01	4.39	3.9	80	<5.3	21.9	<2.6	194.9	43.3
11/28/2007	845.47	5.93	6.0	100	<0.53	23	2.15	188.5	34.5
9/14/2009	844.65	6.75	11.2	24.8	<0.42	41	13.5	39.7	16.5

Well SUMP -1
 PVC Elevation = (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)	
9/14/2009	NM	4.57	NOT SAMPLED							

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
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Groundwater Analytical Results Summary
 Garrow Oil - Woody's Goodies LUST Site BRRIS# 03-71-000951-

Byrns

Well SUMP -2
 PVC Elevation = (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/14/2009	NM	4.29	NOT SAMPLED						

Well SUMP -3
 PVC Elevation = (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/14/2009	NM	5.26	NOT SAMPLED						

Well SUMP -4
 PVC Elevation = (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to Water (in feet)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
9/14/2009	NM	4.64	NOT SAMPLED						

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
 Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.



Tel: 608-838-9120
Fax: 608-838-9121

January 17, 2012

PECFA #: 53703-3515-11A

Mr. Wendell Wojner
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Madison, Wisconsin 53711

Re: Former Byrns Oil Property (03-13-001971)
Contamination Assessment/Remediation Update
211 S. Brearly Street - Madison, Wisconsin
BRRTS: 03-13-001971

Dear Mr. Wojner:

Seymour Environmental Services, Inc. (Seymour) is pleased to present the results of the soil remedial activities and recent groundwater monitoring conducted at the above referenced site. Soil remediation work was conducted in three areas at the site where previous sampling had shown very high levels of petroleum contamination. The work generally was performed as outlined in the PECFA Bid Deferment dated April 22, 2011. Groundwater monitoring was conducted after the soil remediation.

Summary of Previous Environmental Activities

Environmental concerns have been an on-going issue at the site for a number of years. Highlights of the environmental assessment/remediation at the site include:

- Contamination assessment activities were started at the site in (1993). During that work a large volume of petroleum-contaminated soil was identified. Additionally, groundwater contamination, including free-phase product, was identified at the site.
- In the spring of 1998 a large remedial excavation was performed at the site. Soils were excavated from the surface to a depth of approximately 7.5 feet in much of the southern and western part of the property. A total of 4,400 tons of petroleum-contaminated sediments were removed from the site. Sidewall soil samples collected during the excavation confirmed that significant contamination remained after the excavation.
- In the summer of 2000 free-phase product and contaminated groundwater was removed from the site by vacuum extraction using 4 sumps installed within the remedial excavation. A total of 2,525 gallons of product and 50,000 gallons of contaminated groundwater were removed during the pumping.
- Groundwater monitoring conducted between 2000 and 2009 showed that groundwater contamination exceeding WDNR standards remains on the south and west portions of the site. Free-phase product was present in the southwest corner of the property (MW-16).
- In September 2009 shallow soil sampling was conducted at the site to evaluate direct contact hazards. This sampling showed areas of concern in the northeast, southeast, southwest and central parts of the site.

Recent Activities

Soil Remediation

The City of Madison Engineering Department retained Seymour Environmental to oversee site remediation and post-remediation monitoring. A total of 695.22 tons of contaminated soil was taken to Madison Prairie Landfill.

Consultant: Seymour Environmental Services, Inc.
2531 Dyreson Road
McFarland, Wisconsin 53558
Attn: Robyn Seymour (608) 838-9120

Excavating Contractor: Speedway Sand and Gravel
8500 Greenway Blvd.
Middleton, Wisconsin 53562
Attn: Matt Stecklein (608) 836-1071

Landfill: Madison Prairie Landfill
6002 Nelson Road
Sun Prairie, Wisconsin 53590
Attn: Lisa Olson (608) 837-9031

Laboratory: PACE Analytical
1241 Bellevue Street
Green Bay, Wisconsin 54302
Attn: Alee Her (920) 469-2436

On August 17, 2011 soil remediation was initiated at the site. Seymour was on site to observe and screen the soil that was removed from the excavation. Soils were segregated so that relatively clean overburden as well as backfill placed during earlier remedial efforts was not taken to the landfill. Soil samples were inspected for visual and olfactory evidence of contamination and selected samples were screened for organic vapors using a photo ionization meter equipped with a 10.6 eV lamp. Additionally, Seymour coordinated dewatering of the remedial excavations as needed. Soil removal was performed at three separate areas. Descriptions of each excavation are summarized below.

Excavation #1

Soil remediation was started in the southwest corner of the site. This area had soils with contaminant levels exceeding NR746 Table values (saturated soil pores) and free-phase product. Soils at the surface to a depth of ~4 ft. appeared relative clean. However, the soil in the smear zone was heavily contaminated and free product was migrating from the sidewalls so the excavation was extended to a depth of 8 feet. Groundwater did not seep into the excavation until we reached approximately 8 feet, the soil was fairly tight, but groundwater ran into the excavation from some fill to the east and stabilized at approximately 5 feet below surface. Dvorak Pumping came to the site and removed the contaminated water from the excavation on two occasions, free product was present on the surface of the water when they started but was no longer present by the time we backfilled. The excavation was advanced laterally until field

observations indicated the soil contamination was removed. The final excavation was approximately 23 by 40 feet. Generally, the excavation was advanced downward to a depth of approximately 8 feet.

However, a small area in the southern portion of the excavation was advanced to 14 feet to facilitate installation of a monitoring sump to replace MW-16, which was abandoned during excavation. The total volume of soils excavated in this area was approximately 270 cubic yards. The clean overburden was returned to the excavation and approximately half of the total excavated soil was taken to Madison Prairie Landfill for treatment/disposal. Remedial excavation details are shown on Figure 2.

Four soil samples were collected from the sidewall of the final excavation. One sample was collected along each sidewall at a depth of 4 to 5 feet. The samples were screened with an organic vapor meter equipped with a 10.6 eV bulb. Organic vapor levels ranged from 25 to 95 vppm. The soil samples were submitted to PACE Analytical, a Wisconsin-certified laboratory, for analysis of petroleum-related volatile organic compounds (PVOCs) + naphthalene and PAHs.

Petroleum-related contaminants were detected in all four sidewall samples. Contaminant levels in the sample from the south side of the excavation were below WDNR standards. Only benzene in the north sidewall exceeded the WDNR RCL. The benzene level in the east sidewall sample exceeded the RCL and several PAH compounds exceeded the non-industrial direct contact levels including benzo(a)anthracene, benzo(a)pyrene and dibenzo(a,h)anthracene. Higher levels of petroleum-related contaminants were present in the soil sample collected along the west wall of the excavation. Compounds present in that area above the groundwater protection levels include benzene (1410 ug/kg), ethylbenzene (3000 ug/kg), xylenes (8830 ug/kg), acenaphthylene (958 ug/kg), 1-methylnaphthalene (58900 ug/kg), naphthalene (7750 ug/kg) and phenanthrene (9790 ug/kg). Additionally, the naphthalene level exceeded the saturated soil pore levels (NR746 Table1). Results of the sidewall sample analysis from excavation #1 are summarized in Table 1 and laboratory reports are attached.

Excavation #2

On August 17 and 18 soil remediation was conducted near the southeastern corner of the property. Previous sampling had identified soil contamination NR746 Table values (saturated soil pores) in this area. Most of the surface soils in the area did not appear to be impacted by petroleum releases. These "clean" overburden sediments were removed to a depth of between 2 and 4 feet where noticeable petroleum-odors were noted. During the excavation MW-6 was removed since it was located within some highly contaminated sediments. The final excavation was approximately 37 by 50 feet. Generally, the excavation was advanced downward to a depth of approximately 9 feet. The total volume of soils excavated in this area was approximately 617 cubic yards. The clean overburden was returned to the excavation and the contaminated soils were taken to Madison Prairie Landfill for treatment/disposal. Remedial excavation details are shown on Figure 3.

Soil samples were collected during excavation activities to document the condition of the remaining soil. The samples were screened with an organic vapor meter equipped with a 10.6 eV bulb. Organic vapor screening and field observations were used to direct excavation work. Seven soil samples were submitted to PACE Analytical for analysis of petroleum-related volatile organic compounds (PVOCs) + naphthalene and PAHs. Three of the samples were collected from the shallow, direct contact horizon and the remaining four samples were collected along the sidewalls of the excavation near the base at a depth of 8 to 9 feet. No sidewall samples were collected along the southwest wall where we encountered fill from a previous investigation. The deeper samples were collected below the static water table based on data from monitoring wells but no groundwater was present during the excavation.

Petroleum-related contaminants were detected in all seven sidewall samples. Contaminant levels in two of the samples from the excavation were below WDNR standards. These samples were collected from shallow (2-3 ft blg) soils along the east and south sides of the excavation. A third shallow soil sample (Pit 2 #9) that was collected along the northern wall of the excavation contained several analytes above the RCLs or groundwater protection levels but no compounds were present above the direct contact hazard levels. The deeper sidewall samples all contained benzene, ethylbenzene, toluene, xylenes, phenanthrene, and/or naphthalene at concentrations exceeding the RCLs or groundwater protection levels. Each of these samples contained at least one compound at concentrations exceeding the saturated soil pore values (NR746 Table 1). The most severe contamination was located along the eastern sidewall (Pit 2 #1) where benzene, ethylbenzene, 1,2,4 trimethylbenzene, xylenes, and naphthalene all exceeded the NR746 Table 1 value. Results of the sampling analysis from excavation #2 are summarized in Table 2 and laboratory reports are attached.

Excavation #3

On August 18 soil remediation was conducted at a small area in the central part of the site near GP-10. Previous sampling had identified soil contamination with several PAHs exceeding the direct contact hazard level in this area. Additionally, the benzene level, 1040 ug/kg, in a sample from this area was near the direct contact hazard level (1100 ug/kg). The final excavation was approximately 20 by 20 feet. Generally, the excavation was advanced downward to a depth of approximately 8 feet. The total volume of soils excavated in this area was approximately 115 cubic yards. Most of the soils removed from the excavation were taken to Madison Prairie Landfill for treatment/disposal. Remedial excavation details are shown on Figure 4.

Confirmation samples were collected from the sidewalls and the base. The samples were screened with an organic vapor meter equipped with a 10.6 eV bulb. Soil samples were collected along the margins of the final excavation at a depth of 4 feet and the base sample was collected at a depth of 8 feet. Five soil samples were submitted to PACE Analytical for analysis of petroleum-related volatile organic compounds (PVOCs) + naphthalene and PAHs.

Petroleum-related contaminants were detected in all five samples from the excavation margin. Three compounds were detected in the samples at levels that exceed the NR720 RCLs or groundwater protection levels, benzene, naphthalene, and phenanthrene. Several of the PAH compounds were present above the non-industrial direct contact levels. Results of the sampling analysis from excavation #3 are summarized in Table 3 and laboratory reports are attached.

Groundwater Monitoring

On November 10 and 11, 2011 groundwater monitoring was conducted at the site. Monitoring consisted of groundwater level measurement and groundwater sample collection from the monitoring wells and monitoring sumps on the site. Groundwater samples were analyzed for PVOCs and PAHs. Additionally, the groundwater monitoring sumps and the newly installed monitoring well (MW-16R) were surveyed. During the monitoring event one of the wells could not be found, MW-18. A protective well cover was discovered in the brush just west of the location of MW-18. We presume that the well cover was hit during grading of the site and scraped off the monitoring well. Without the steel cover it is difficult to locate a 2" diameter PVC well. Monitoring well MW-11 could not be located and has not been sampled since November 2007. The well was not sampled during the next sampling round in September 2009. The well was a stick-up and the location could be accessed but no sign of the well was found.

Water level data collected in November 2011 shows that groundwater at the site is shallow; the water-table was present at approximately 5 feet below grade. Overall, groundwater level data is consistent with historic values, however, along the south side of the site the water table has risen relative to the rest of the monitoring network. Water level data was contoured to evaluate the groundwater flow at the site. The data indicate that groundwater flow at the site is toward the west (Figure 5). The horizontal water-table gradient is very flat on the subject parcel (0.005 ft/ft). The gradient appears steeper to the west, however, the increase in the gradient is entirely "controlled" by the water level at one well (MW-12).

After waiting almost three months after the excavation no free product was present on MW-16R. We measured the free product before excavation and found 3.2 ft present. Groundwater contamination in excess of the NR140 groundwater quality standards remains at the site. Analytes were present at concentrations exceeding the NR140 ESs in six wells, MW-10, MW-12, MW-13, MW-14, MW-15, and Sump 4. Only two of these wells (MW-15 and Sump 4) are located on the subject parcel. Two PVOCs were detected in the groundwater at concentrations exceeding NR140 groundwater quality standards, benzene and naphthalene. Benzene levels exceeded the ES in groundwater at Sump 4 (9.6 ug/l) and MW-12 (11.7 ug/l). Benzene was present above the PAL in three additional wells, MW-14, MW-15, and MW-16R. Naphthalene was detected in all of the sampling points but only exceed the PAL in one well (MW-12). Maps showing the distribution of benzene and naphthalene in groundwater are attached (Figures 6 and 6A).

PAHs were detected in groundwater at all of the sampling points; however, the reported concentrations were generally low. Groundwater samples from five wells contained at least one PAH above the ES (MW-10, MW-12, MW-13, MW-14, and MW-15). Benzo(a) pyrene, benzo(b)fluoranthene, and chrysene were detected above their ES in samples from MW-10, MW-12, MW-13 and MW-14. The highest concentrations were in MW-12. Groundwater at MW-10 contained chrysene above the ES. The distribution of chrysene in groundwater is shown on an attached map (Figure 7).

Graphs were constructed showing the variation in contaminant level over time in several of the monitoring wells (MW-3, MW-12, and MW-17). The graphs indicate that contaminant levels in the groundwater at the site have generally decreased.

Conclusions and Recommendations

The excavation and groundwater monitoring outlined in the Bid Deferment letter dated April 22, 2011 have been completed. With approval from both the WDNR and DSPS we exceeded the estimated 600 tons by 95 tons. We removed the most heavily contaminated soil encountered. Two monitoring wells were removed during the excavation activities, MW-16 and MW-6. Monitoring well MW-16 was replaced with a sump placed in the excavation. One monitoring well, MW-6 was removed but not replaced. Two monitoring wells, MW-11 and MW-18 were not found. The heavily contaminated soil identified in earlier work was removed and the free product that had been present on MW-16 is no longer present.

Based on the data collected during the remedial activities and subsequent groundwater monitoring at the site it is our opinion that the site should be closed to further environmental investigation/remediation with a GIS registry for residual soil and groundwater contamination. Please call me at 608-838-9120 if you have any questions or would like additional information.

Sincerely,
Seymour Environmental Services, Inc.



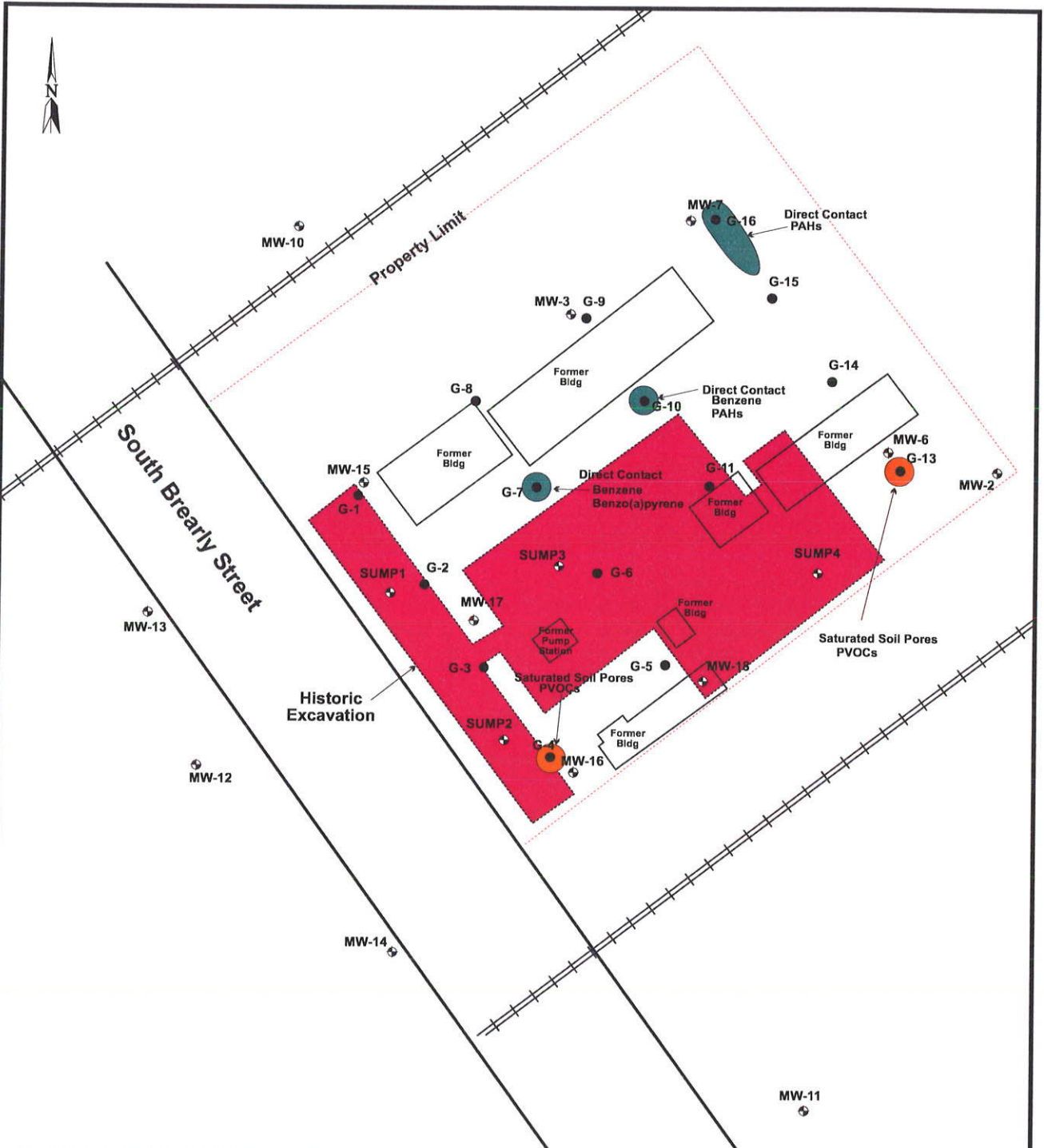
Robyn Seymour, P.G.

Attachments:

- Figures (7)
- Tables (6)
- Trend Graphs
- Laboratory Reports

cc: Mr. Jon Heberer - WDSPS PECFA Program
Ms. Brynn Bemis - City of Madison Engineering (Responsible Party)

FIGURES



LEGEND

MW-1 - Monitoring well location

G-8 - Geoprobe location

0' 60' 120'

1 INCH = 60 FEET
SCALE IS APPROXIMATE

FILE/PATH: C:\PROJECTS\Madison-Byrns\
Fig1-layout.cdr

DATE: 08/29/2011

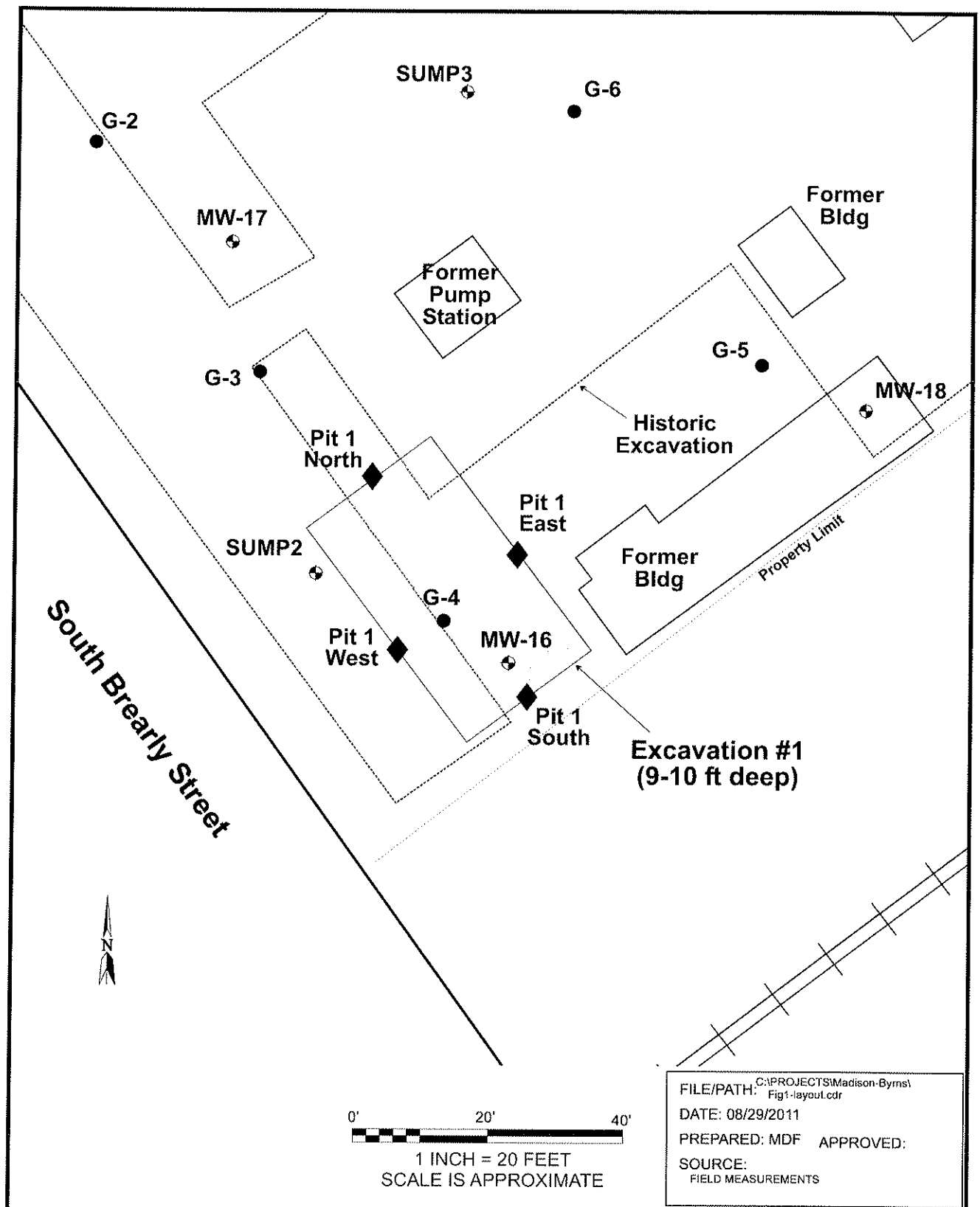
PREPARED: MDF APPROVED:

SOURCE:
FIELD MEASUREMENTS

**SEYMOUR
ENVIRONMENTAL
SERVICES, INC.**

SITE LAYOUT
City of Madison Engineering - Former Byrns Oil
211 S. Brearly Street
Madison, Wisconsin

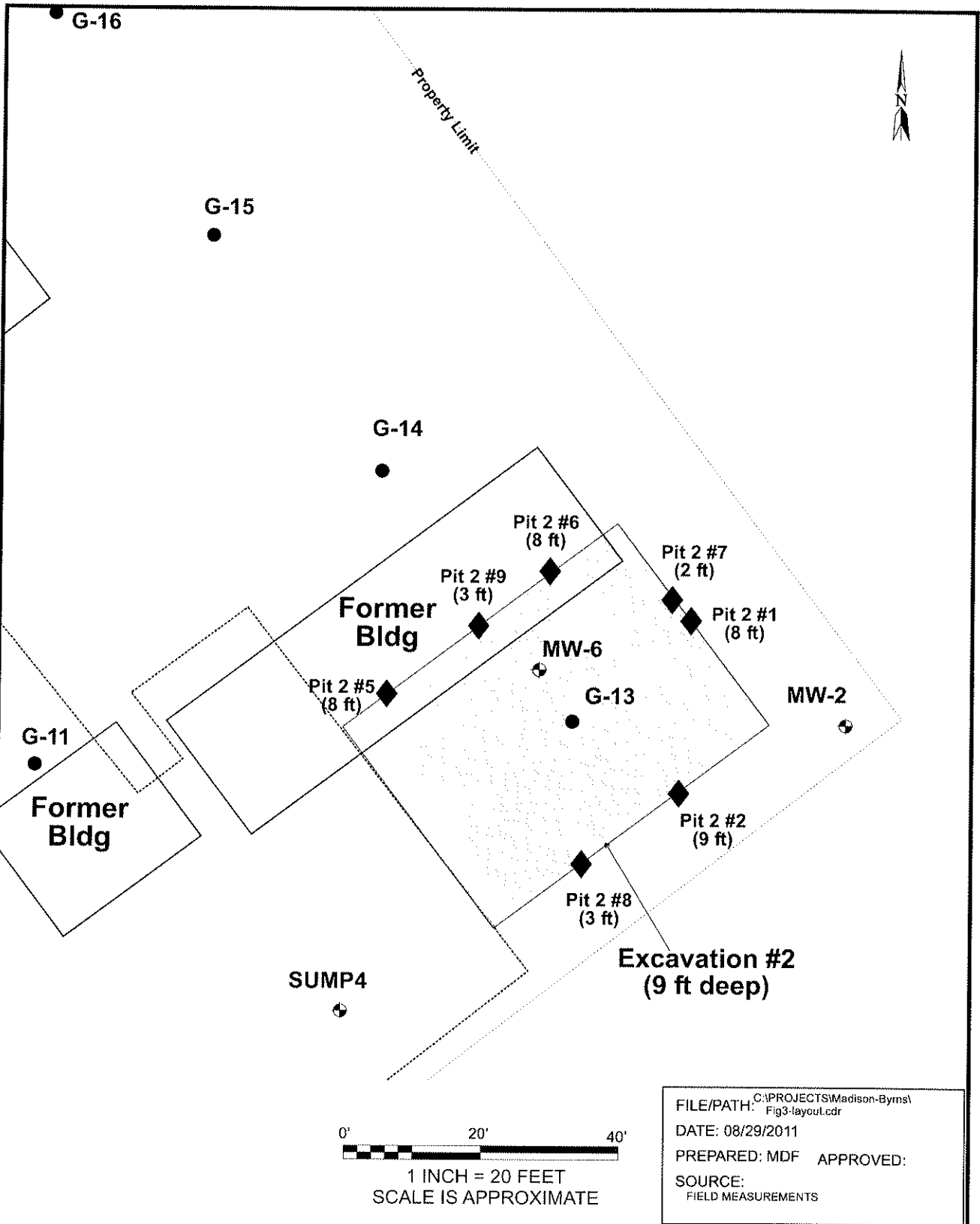
**FIGURE
1**



SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.

EXCAVATION #1 DETAILS
 City of Madison Engineering - Former Byrns Oil
 211 S. Brearly Street
 Madison, Wisconsin

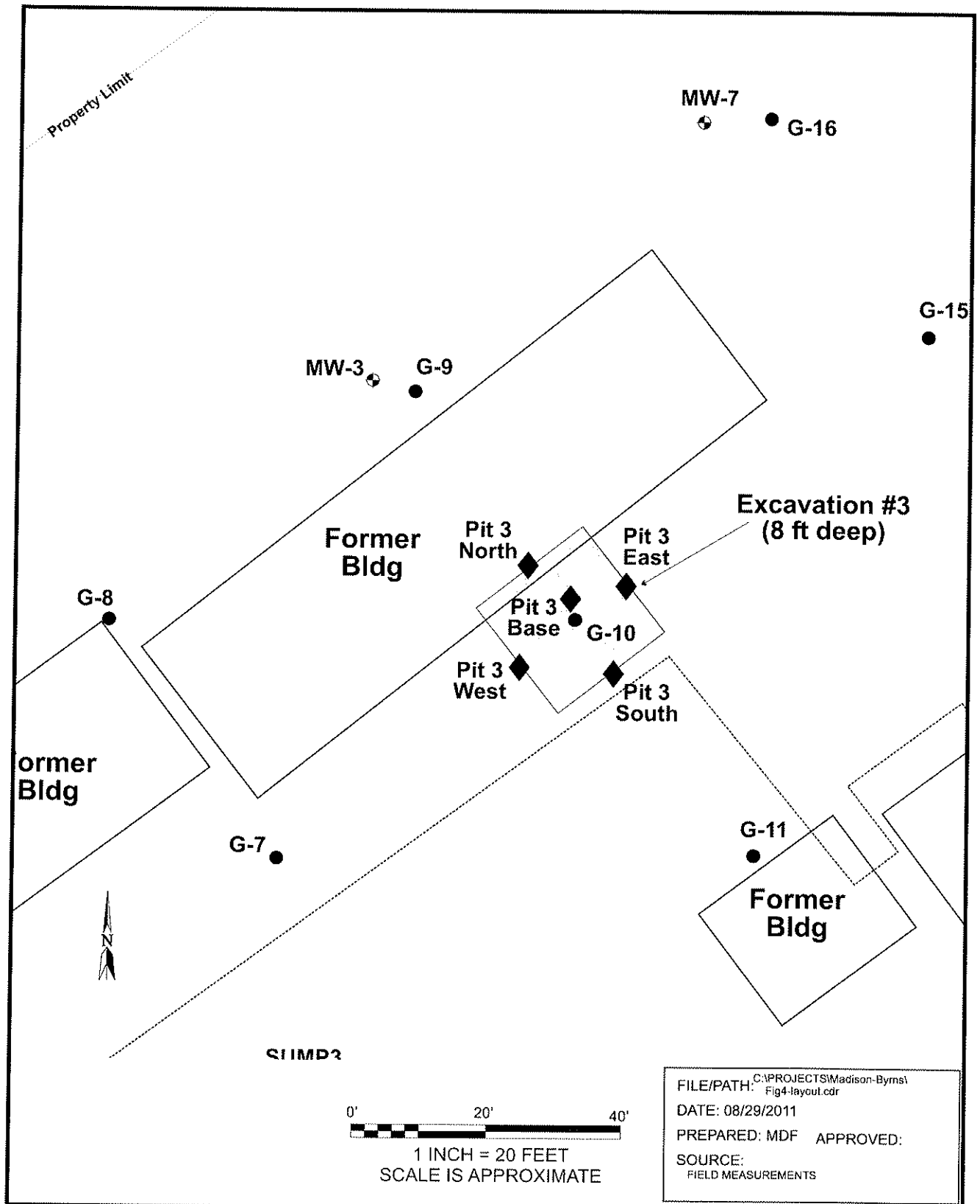
FIGURE
 2



SEYMOUR
ENVIRONMENTAL
SERVICES, INC.

EXCAVATION #2 DETAILS
City of Madison Engineering - Former Byrns Oil
211 S. Brearly Street
Madison, Wisconsin

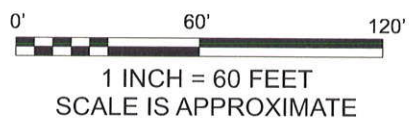
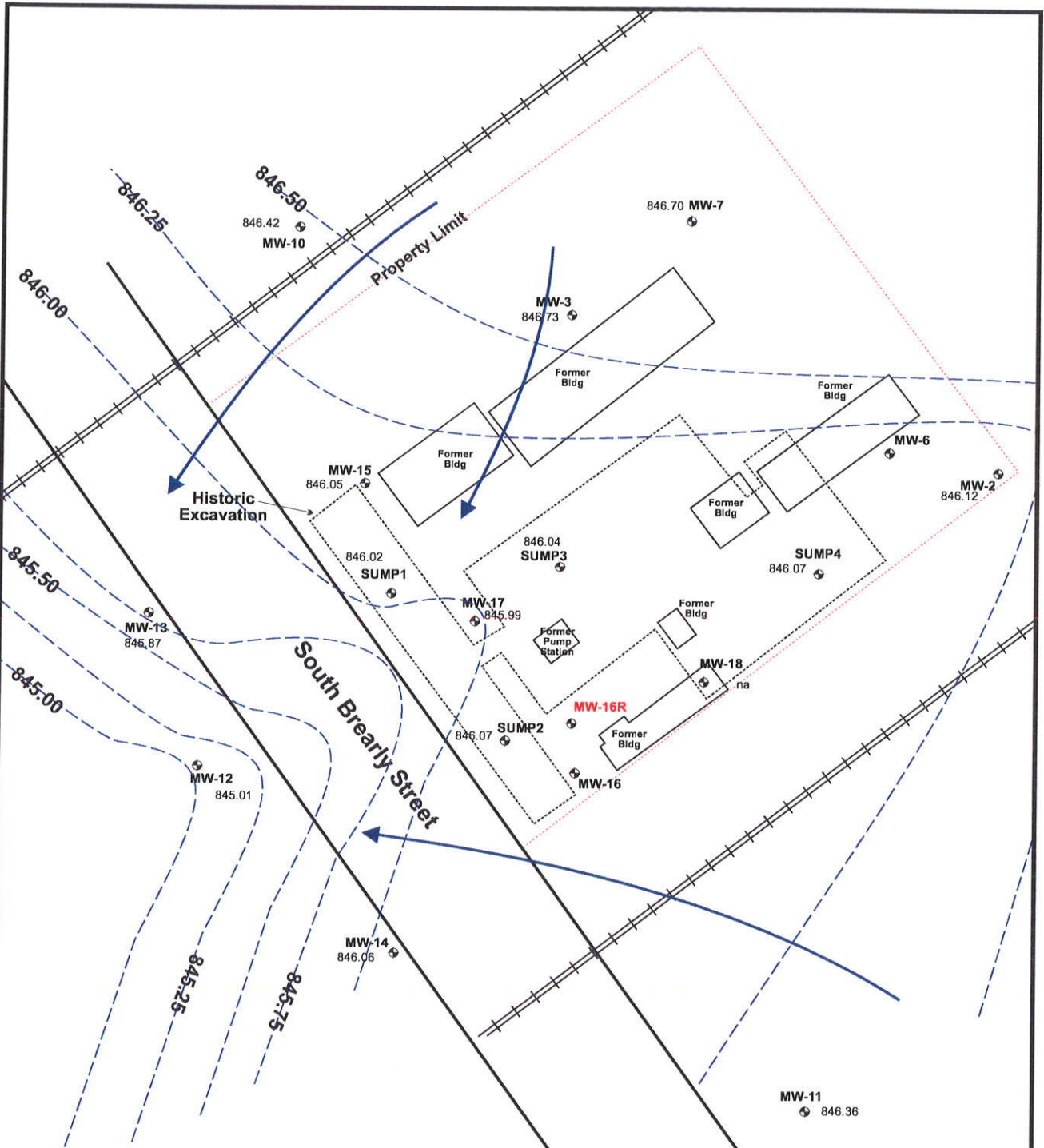
FIGURE
3



SEYMOUR
ENVIRONMENTAL
SERVICES, INC.

EXCAVATION #3 DETAILS
City of Madison Engineering - Former Byrns Oil
211 S. Brearly Street
Madison, Wisconsin

FIGURE
4

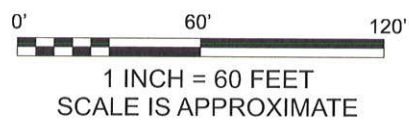
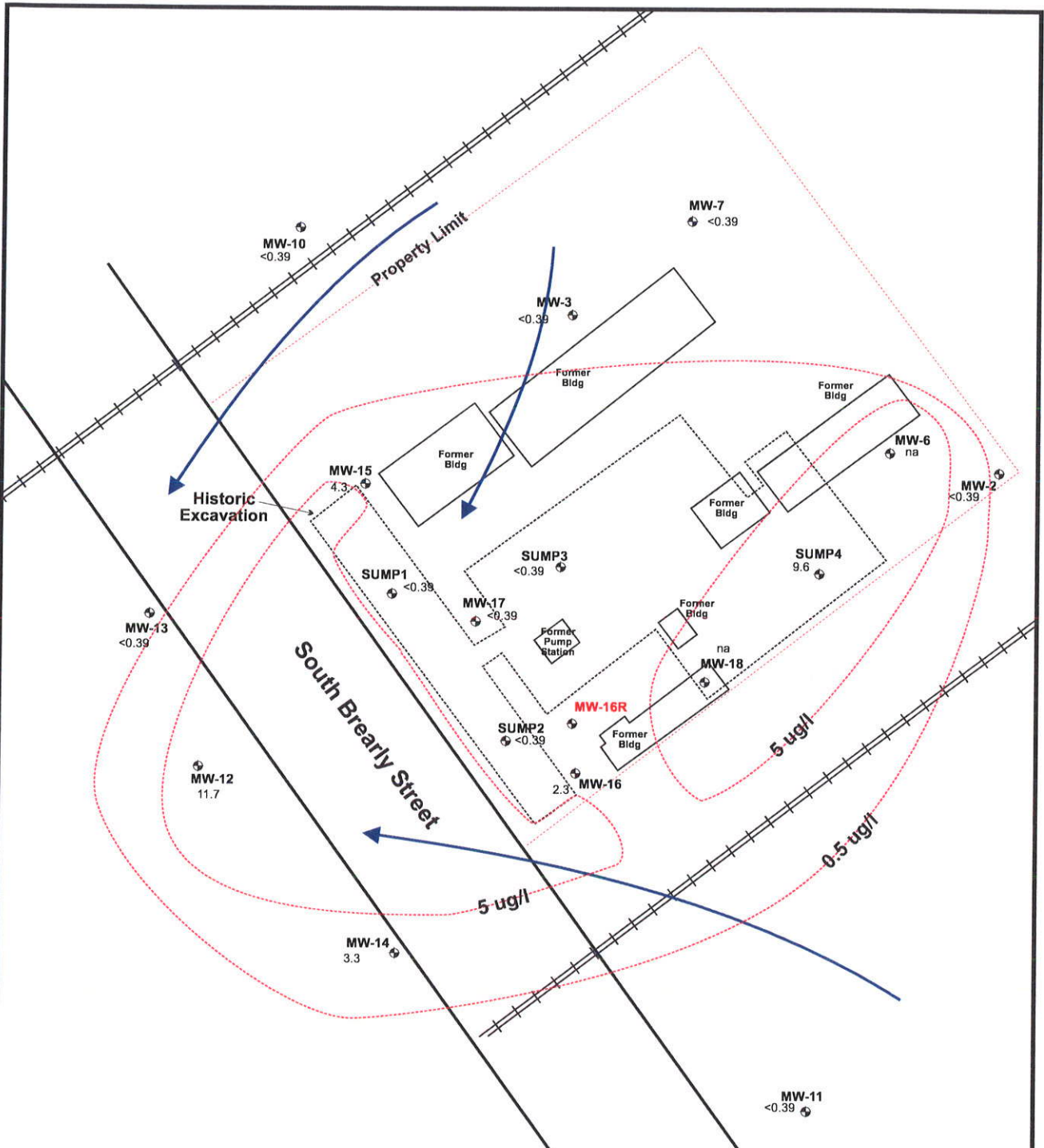


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 PREPARED: MDF APPROVED:
 SOURCE:
 FIELD MEASUREMENTS

**SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.**

WATER-TABLE CONTOUR (Nov. 2011)
 City of Madison Engineering - Former Byrns Oil
 211 S. Brearly Street
 Madison, Wisconsin

FIGURE
5

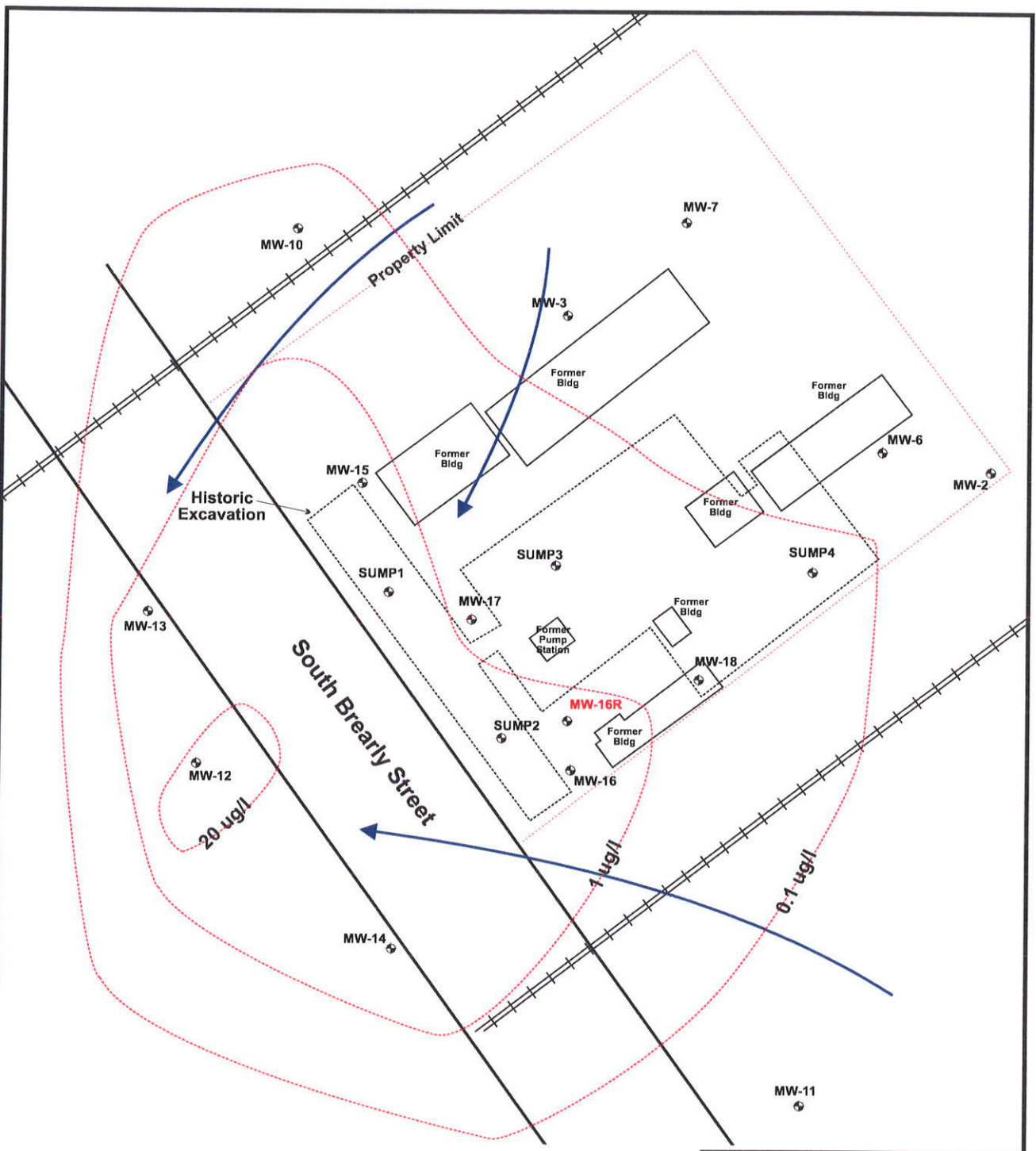


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 Fig6-layout.cdr
 DATE: 12/14/2011
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 SOURCE:
 FIELD MEASUREMENTS

**SEYMOUR
 ENVIRONMENTAL
 SERVICES, INC.**

BENZENE IN GROUNDWATER (Nov. 2011)
 City of Madison Engineering - Former Byrns Oil
 211 S. Brearly Street
 Madison, Wisconsin

FIGURE
6

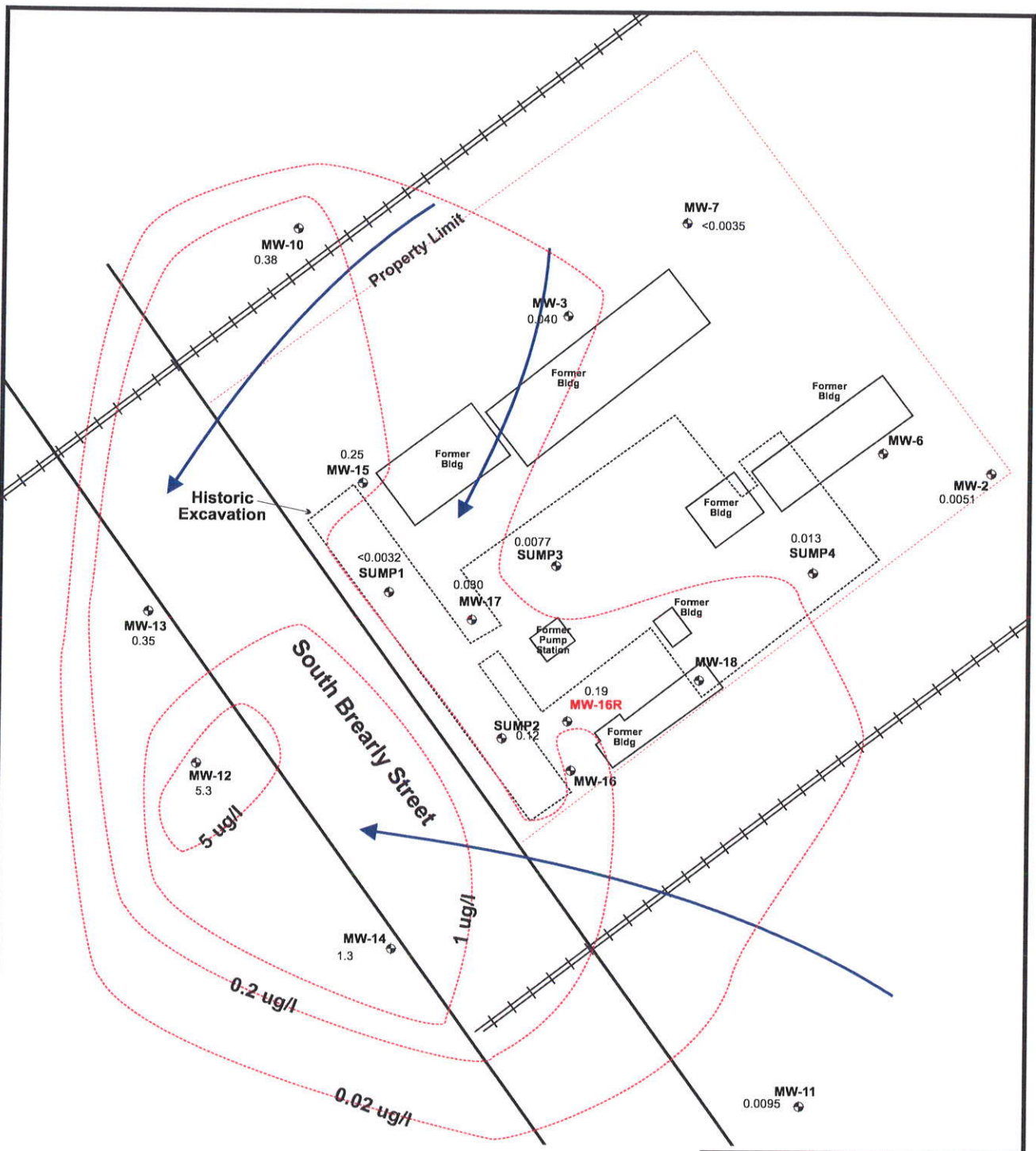


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Fig6-layout.cdr
DATE: 12/14/2011
PREPARED: MDF APPROVED:
SOURCE:
FIELD MEASUREMENTS

SEYMOUR
ENVIRONMENTAL
SERVICES, INC.

NAPHTHALENE IN GROUNDWATER (Nov. 2011)
City of Madison Engineering - Former Byrns Oil
211 S. Brearly Street
Madison, Wisconsin

FIGURE
6a



FILE/PATH: C:\PROJECTS\Madison-Byrns\
Fig7-layout.cdr
DATE: 08/29/2011
PREPARED: MDF APPROVED:
SOURCE:
FIELD MEASUREMENTS

SEYMOUR
ENVIRONMENTAL
SERVICES, INC.

CHRYSENE IN GROUNDWATER (Nov. 2011)
City of Madison Engineering - Former Byrns Oil
211 S. Brearly Street
Madison, Wisconsin

FIGURE
7

TABLES

TABLE 1
SUMMARY OF EXCAVATION #1 SOIL ANALYTICAL DATA (08/17/2011)
Former Byrns Oil Company Property
211 S. Brearly Street - Madison, Wisconsin

Sample I.D.	PIT 1 North	PIT 1 South	PIT 1 East	PIT 1 West	NR720	NR746	
Depth (ft)	5	4	4	4	RCLs	Table 2	Table 1
PVOCs							
Benzene	71.7	<25.0	713	1410	5.5	1100	8500
1,2 Dichloroethane	na	na	na	na	ns	540	600
Ethylbenzene	<25.0	<25.0	161	3000	2900	ns	4600
Methyl-tert-butyl ether	<25.0	<25.0	<25.0	<1000	ns	ns	ns
Toluene	<25.0	<25.0	157	<1000	1500	ns	38000
1,3,5 Trimethylbenzenes	<25.0	<25.0	156	<1000	ns	ns	11000
1,2,4 Trimethylbenzenes	73.3	<25.0	504	18800	ns	ns	83000
Total Trimethylbenzenes	73.3	<50.0	660	18800	ns	ns	ns
Xylenes, -m, -p	97.5	<50.0	595	5790	ns	ns	ns
Xylene, -o	<25.0	<25.0	91.5	3040	ns	ns	ns
Total Xylenes	97.5	<75.0	686.5	8830	4100	ns	42000
PAHs							
Acenaphthrene	<2.8	<2.5	10.2	2690	38000	900,000	ns
Acenaphthylene	<3.2	<2.8	13.3	958	700	18000	ns
Anthracene	5.3	<4.1	48.6	1250	3,000,000	5,000,000	ns
Benzo(a)anthracene	8.9	2.6	99.1	442	17000	88	ns
Benzo(a)pyrene	5.8	3.3	71.5	<322	48000	8.8	ns
Benzo(b)fluoranthene	6.8	3.1	58.2	<340	360,000	88	ns
Benzo(g,h,i)perylene	6.1	3.8	43.2	268	6,800,000	1800	ns
Benzo(k)fluoranthene	6.7	<3.3	60.8	<366	870,000	880	ns
Chrysene	11.8	3.7	108	489	37,000	8,800	ns
Dibenzo(a,h)anthracene	<5.3	<4.8	13.4	<536	38,000	8.8	ns
Fluoranthene	28.6	<8.9	171	1370	500,000	600,000	ns
Fluorene	<4.9	<4.4	24.4	4030	100,000	600,000	ns
Indeno(1,2,3-cd)pyrene	4.9	<2.5	35.6	<280	680,000	88	ns
1-Methylnaphthalene	6.8	<2.7	74.5	58900	23,000	1,100,000	ns
2-Methylnaphthalene	5.8	<2.7	86.7	17100	20,000	600,000	ns
Naphthalene	7.8	<3.1	101	7750	400	20,000	2700
Phenanthrene	14.6	<3.9	186	9790	1,800	18,000	ns
Pyrene	24.8	5.9	226	1230	8,700,000	500,000	ns
METALS							
Lead	na	na	na	na	50	50	ns

- All results are listed in in ug/kg
- na = not analyzed
- ns = no standard established

- NR720 RCL = Residual contaminant level (exceedances bold)
- NR746 Table 1 = Indicator of saturated soil pores (exceedances shaded)
- NR746 Table 2 = Direct contact hazard level (exceedances boxed)

TABLE 2
SUMMARY OF EXCAVATION #2 SOIL ANALYTICAL DATA (08/18/2011)
Former Byrns Oil Company Property
211 S. Brearly Street - Madison, Wisconsin

Sample I.D.	PIT 2 #1	PIT 2 #2	PIT 2 #5	PIT 2 #6	PIT 2 #7	PIT 2 #8	PIT 2 #9	NR720	NR746	
Depth (ft)	8	9	8	8	2	3	3	RCLs	Table 2	Table 1
PVOCs										
Benzene	10700	<625	707	307	<25.0	<25.0	<625	5.5	1100	8500
1,2 Dichloroethane	na	na	na	na	na	na	na	ns	540	600
Ethylbenzene	56000	36700	4280	5620	<25.0	<25.0	4750	2900	ns	4600
Methyl-tert-butyl ether	1790	<625	163	186	<25.0	<25.0	<625	ns	ns	ns
Toluene	3930	846	322	208	<25.0	<25.0	<625	1500	ns	38000
1,3,5 Trimethylbenzenes	7700	<625	1200	<125	<25.0	<25.0	22900	ns	ns	11000
1,2,4 Trimethylbenzenes	103000	79500	9390	16200	<25.0	<25.0	55700	ns	ns	83000
Total Trimethylbenzenes	110700	79500	10590	16200	<50.0	<50.0	78600	ns	ns	ns
Xylenes, -m, -p	63800	38000	5600	<250	<50.0	<50.0	9160	ns	ns	ns
Xylene, -o	4940	3300	480	853	<25.0	<25.0	1460	ns	ns	ns
Total Xylenes	68740	41300	6080	853	<75.0	<75.0	10620	4100	ns	42000
PAHs										
Acenaphthrene	909	301	122	65.2	<2.7	21.7	1580	38000	900,000	ns
Acenaphthylene	249	11	35.0	18.9	6.7	<3.1	380	700	18000	ns
Anthracene	339	118	50.8	24.8	16.7	5.0	698	3,000,000	5,000,000	ns
Benzo(a)anthracene	<55.8	<37.5	<17.4	<9.4	3.9	<2.7	<89.1	17000	88	ns
Benzo(a)pyrene	<64.3	<43.2	<20.0	<10.8	<3.1	<3.2	<103	48000	8.8	ns
Benzo(b)fluoranthene	<67.9	<45.6	<21.1	<11.5	17.7	<3.3	<108	360,000	88	ns
Benzo(g,h,i)perylene	<51.9	<34.8	<16.1	<8.8	24.0	<2.6	<82.8	6,800,000	1800	ns
Benzo(k)fluoranthene	<72.9	<49.0	<22.7	<12.3	11.1	<3.6	<116	870,000	880	ns
Chrysene	<71.2	<47.9	<22.2	<12.0	15.1	<3.5	<114	37,000	8,800	ns
Dibenzo(a,h)anthracene	<107	<71.8	<33.3	<18.0	<5.2	<5.3	<171	38,000	8.8	ns
Fluoranthene	<196	<132	<61.1	<33.1	11.4	<9.7	<314	500,000	600,000	ns
Fluorene	971	375	150	82.5	<4.7	27	1820	100,000	600,000	ns
Indeno(1,2,3-cd)pyrene	<55.8	<37.5	<17.4	<9.4	16.0	<2.7	<89.1	680,000	88	ns
1-Methylnaphthalene	11100	4330	1550	869	34.4	79.2	14200	23,000	1,100,000	ns
2-Methylnaphthalene	17200	5820	2160	1150	85.6	3.5	<95.7	20,000	600,000	ns
Naphthalene	8280	2790	1000	553	63.5	5.6	5120	400	20,000	2700
Phenanthrene	2760	1050	456	270	105	52.9	5700	1,800	18,000	ns
Pyrene	142	<48.3	22.8	12.8	9.6	<3.5	323	8,700,000	500,000	ns
METALS										
Lead	na	na	na	na	na	na		50	50	ns

- All results are listed in in ug/kg
- na = not analyzed
- ns = no standard established

- NR720 RCL = Residual contaminant level (exceedances bold)
- NR746 Table 1 = Indicator of saturated soil pores (exceedances shaded)
- NR746 Table 2 = Direct contact hazard level (exceedances boxed)

TABLE 3
SUMMARY OF EXCAVATION #3 SOIL ANALYTICAL DATA (08/18/2011)
Former Byrns Oil Company Property
211 S. Brearly Street - Madison, Wisconsin

Sample I.D.	PIT 3 North	PIT 3 South	PIT 3 East	PIT 3 West	PIT 3 Base	NR720	NR746	
Depth (ft)	4	4	4	4	8	RCLs	Table 2	Table 1
PVOCs								
Benzene	689	93.9	137	<125	1370	5.5	1100	8500
1,2 Dichloroethane	na	na	na	na	na	ns	540	600
Ethylbenzene	422	295	76.9	1120	966	2900	ns	4600
Methyl-tert-butyl ether	<25.0	<25.0	<25.0	<125	<50.0	ns	ns	ns
Toluene	60.5	<25.0	<25.0	<125	166	1500	ns	38000
1,3,5 Trimethylbenzenes	294	61.1	<25.0	1590	1040	ns	ns	11000
1,2,4 Trimethylbenzenes	386	110	61.0	4830	4530	ns	ns	83000
Total Trimethylbenzenes	680	171.1	61.0	6420	5570	ns	ns	ns
Xylenes, -m, -p	650	189	141	2540	2680	ns	ns	ns
Xylene, -o	54.0	44.1	<25.0	204	180	ns	ns	ns
Total Xylenes	704	233.1	141	2744	2860	4100	ns	42000
PAHs								
Acenaphthrene	435	149	25.4	673	173	38000	900,000	ns
Acenaphthylene	90.7	40.9	6.8	147	56.0	700	18000	ns
Anthracene	157	120	48.5	406	89.2	3,000,000	5,000,000	ns
Benzo(a)anthracene	38.4	141	83.0	216	<34.6	17000	88	ns
Benzo(a)pyrene	33.6	133	85.4	174	<39.8	48000	8.8	ns
Benzo(b)fluoranthene	28.2	114	84.2	158	<42.1	360,000	88	ns
Benzo(g,h,i)perylene	23.8	86.3	52.1	107	<32.1	6,800,000	1800	ns
Benzo(k)fluoranthene	35.2	116	72.7	150	<45.2	870,000	880	ns
Chrysene	44.4	148	81.5	214	<44.1	37,000	8,800	ns
Dibenzo(a,h)anthracene	<42.6	27.0	17.1	<43.6	<66.2	38,000	8.8	ns
Fluoranthene	113	295	160	520	<122	500,000	600,000	ns
Fluorene	504	226	51.7	1100	304	100,000	600,000	ns
Indeno(1,2,3-cd)pyrene	<22.3	76.3	46.3	93.4	<34.6	680,000	88	ns
1-Methylnaphthalene	2450	1010	91.5	4250	3010	23,000	1,100,000	ns
2-Methylnaphthalene	2660	550	69.7	2370	4970	20,000	600,000	ns
Naphthalene	418	299	27.1	806	1490	400	20,000	2700
Phenanthrene	1270	624	183	2630	905	1,800	18,000	ns
Pyrene	162	301	136	586	60.1	8,700,000	500,000	ns
METALS								
Lead	na	na	na	na	na	50	50	ns

- All results are listed in ug/kg
- na = not analyzed
- ns = no standard established

- NR720 RCL = Residual contaminant level (exceedances bold)
- NR746 Table 1 = Indicator of saturated soil pores (exceedances shaded)
- NR746 Table 2 = Direct contact hazard level (exceedances boxed)

TABLE 4
SUMMARY OF GROUNDWATER LEVEL AND PRODUCT DATA
Former Byrns Oil Company Property
211 S. Brearly Street - Madison, Wisconsin

WELL (TOC)	DATE	04/07/05	07/14/05	08/16/06	11/09/06	02/28/07	05/22/07	09/27/07	11/28/07	09/14/09	11/10/11
MW-2 (850.93)	Depth	2.42	6.41	3.65	3.89	4.04	3.26	3.28	4.76	6.07	4.81
	Elev	848.51	844.52	847.28	847.04	846.89	847.67	847.65	846.17	844.86	846.12
MW-3 (850.72)	Depth	2.58	4.49	2.91	3.41	3.85	2.94	3.02	3.78	4.27	3.99
	Elev	848.14	846.23	847.81	847.31	846.87	847.78	847.70	846.94	846.45	846.73
MW-6 (851.40)	Depth	3.10	7.39	4.92	5.45	5.14	4.00	4.26	5.92	6.34	aband.
	Elev	848.30	844.01	846.48	845.95	846.26	847.40	847.14	845.48	845.06	--
MW-7 (850.95)	Depth	2.85	4.57	3.19	3.69	--	3.21	3.27	4.02	4.45	4.25
	Elev	848.10	846.38	847.76	847.26	--	847.74	847.68	846.93	846.50	846.70
MW-9 (854.25)	Depth	6.83	10.76	8.92	8.29	--	7.60	--	9.52	aband.	aband.
	Elev	847.42	843.49	845.33	845.96	--	846.65	--	844.73	--	--
MW-10 (850.70)	Depth	--	5.20	3.92	4.44	--	--	--	4.93	4.81	4.28
	Elev	--	845.50	846.78	846.26	--	--	--	845.77	845.89	846.42
MW-11 (854.74)	Depth	7.41	11.11	8.50	8.65	--	7.82	--	9.67	10.66	8.38
	Elev	847.33	843.63	846.24	846.09	--	846.92	--	845.07	844.08	846.36
MW-12 (851.21)	Depth	3.30	4.93	3.54	3.83	4.30	3.46	3.60	5.53	5.72	6.20
	Elev	847.91	846.28	847.67	847.38	846.91	847.75	847.61	845.68	845.49	845.01
MW-13 (851.30)	Depth	3.37	4.96	3.58	3.92	4.43	3.52	3.46	4.21	4.96	5.43
	Elev	847.93	846.34	847.72	847.38	846.87	847.78	847.84	847.09	846.34	845.87
MW-14 (851.62)	Depth	4.44	6.88	4.48	4.81	5.10	4.21	4.51	5.21	6.44	5.56
	Elev	847.18	844.74	847.14	846.81	846.52	847.41	847.11	846.41	845.18	846.06
MW-15 (850.91)	Depth	3.40	4.43	3.92	3.55	4.02	2.99	3.24	3.89	4.46	4.86
	Elev	847.51	846.48	846.99	847.36	846.89	847.92	847.67	847.02	846.45	846.05
MW-16 (851.77)	Depth	8.97	9.63	9.35	8.82	7.80	7.42	7.36	8.02	nm	aband.
	Elev	842.80	842.14	842.42	842.95	843.97	844.35	844.41	843.75	--	--
	Product	5.21	5.06	5.25	5.15	3.66	6.21	3.95	4.00	3 ft	--
MW-16R (851.55)	Depth	ni	ni	ni	ni	ni	ni	ni	ni	ni	5.47
	Elev	--	--	--	--	--	--	--	--	--	846.08
	Product										0.00
MW-17 (851.04)	Depth	3.76	4.57	4.10	3.67	4.14	1.21	3.41	4.02	4.38	5.05
	Elev	847.28	846.47	846.94	847.37	846.90	849.83	847.63	847.02	846.66	845.99
MW-18 (851.40)	Depth	4.60	7.64	6.05	5.59	5.70	4.46	4.39	5.93	6.75	na
	Elev	846.80	843.76	845.35	845.81	845.70	846.94	847.01	845.47	844.65	--
SUMP1 (851.00)	Depth	nm	nm	nm	nm	nm	nm	nm	nm	nm	4.98
	Elev	--	--	--	--	--	--	--	--	--	846.02
SUMP2 (850.77)	Depth	nm	nm	nm	nm	nm	nm	nm	nm	nm	4.70
	Elev	--	--	--	--	--	--	--	--	--	846.07
SUMP3 (851.69)	Depth	nm	nm	nm	nm	nm	nm	nm	nm	nm	5.65
	Elev	--	--	--	--	--	--	--	--	--	846.04
SUMP4 (851.02)	Depth	nm	nm	nm	nm	nm	nm	nm	nm	nm	4.95
	Elev	--	--	--	--	--	--	--	--	--	846.07

- Depth and Product data are listed in feet; elevation in feet above msl *Product thickness estimated
- nm = not measured
- ni = not installed

TABLE 5A
SUMMARY OF PVOCs in GROUNDWATER (11/11/2011)
Former Byrns Oil Company Property
211 S. Brearly Street - Madison, Wisconsin

WELL	GW Elev.	Benzene	Ethylbenzene	Toluene	MTBE	Total Trimethylbenzene	Total Xylenes	Naphthalene
MW-2	846.12	<0.39	<0.41	<0.42	<0.38	<0.83	<1.25	0.042
MW-3	846.73	<0.39	<0.41	<0.42	<0.38	<0.83	<1.25	0.011
MW-6	Well abandoned during excavation work (Aug. 2011)							
MW-7	846.70	<0.39	<0.41	<0.42	<0.38	<0.83	<1.25	0.081
MW-9	Well apparently abandoned							
MW-10	846.42	<0.39	<0.41	<0.42	<0.38	<0.83	<1.25	0.88
MW-11	846.36	<0.39	<0.41	<0.42	<0.38	<0.83	<1.25	0.030
MW-12	845.01	11.7	0.71	0.67	2.2	1.9	2.17	24.7
MW-13	845.87	<0.39	<0.41	<0.42	0.55	2.5	<1.25	1.1
MW-14	846.06	3.3	1.4	0.73	0.99	2.52	1.3	3.7
MW-15	846.05	4.3	<0.41	<0.42	0.66	1.1	1.67	5.7
MW-16R	846.08	2.3	0.44	<0.42	1.5	3.9	<1.25	1.1
MW-17	845.99	<0.39	<0.41	<0.42	4.1	0.47	<1.25	0.77
MW-18	Well damaged by lot grading (Aug. 2011) couldn't find it							
SUMP1	846.02	<0.39	<0.41	<0.42	0.44	<0.83	<1.25	0.0049
SUMP2	846.07	<0.39	<0.41	<0.42	1.8	0.45	<1.25	0.34
SUMP3	846.04	<0.39	<0.41	<0.42	0.72	<0.83	<1.25	0.31
SUMP4	846.07	9.6	<0.41	<0.42	<0.38	<0.83	<1.25	0.15
NR140	ES	5	700	800	60	480	2000	100
	PAL	0.5	140	160	12	96	400	10

- All results are listed in ug/l
- na = not analyzed
- ns = no standard established

- NR140 PAL = Preventative Action Limit (exceedances bold)
- NR140 ES = Enforcement Standard (exceedances shaded)
** Naphthalene analyzed as a PAH (SW846 8270) not a VOC

TABLE 5B
SUMMARY OF PAHs in GROUNDWATER (11/10/2011)
Former Byrns Oil Company Property
211 S. Brearly Street - Madison, Wisconsin

Sample I.D.	MW-2	MW-3	MW-7	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-16R	MW-17	SUMP #1	SUMP #2	SUMP #3	SUMP #4	ES	PAL
Acenaphthrene	0.051	<0.0046	<0.0046	0.037*	0.020*	52.4	3.1	19.5	9.0	1.8	1.4	0.29	1.9	1.6	0.28	ns	ns
Acenaphthylene	0.016*	0.0087*	<0.0036	0.092*	0.0045*	17.9	1.0	3.6	2.0	0.30*	0.064	0.015*	0.12*	0.21	0.023*	ns	ns
Anthracene	0.13	0.029*	0.032*	0.12	0.045*	35.7	3.4	11.4	2.8	0.34*	0.12	0.038*	0.33	0.20	0.099	3000	600
Benzo(a)anthracene	<0.0036	0.027*	<0.0037	0.20	0.0044*	3.7*	0.30*	1.3	0.16*	0.090*	0.021*	0.0041*	0.13*	0.0053*	0.0050*	ns	ns
Benzo(a)pyrene	<0.0029	0.032*	<0.0029	0.34	0.0043*	3.1*	0.21*	0.72	0.15*	0.071*	0.018*	0.0055*	0.11*	0.0044*	0.0071*	0.2	0.02
Benzo(b)fluoranthene	<0.0034	0.018*	<0.0034	0.28	0.0050*	2.0*	0.22*	0.72	0.12*	<0.080	0.020*	0.0070*	0.11*	0.0046*	0.0089*	0.2	0.02
Benzo(g,h,i)perylene	0.0050*	0.023*	<0.0049	0.35	0.0076*	2.0*	0.14*	0.41*	0.15*	<0.11	0.019*	0.0093*	0.065*	0.017*	0.018*	ns	ns
Benzo(k)fluoranthene	<0.0044	0.027*	<0.0044	0.39	<0.0044	3.5*	0.18*	0.56	0.25*	0.13*	0.016*	<0.0044	0.090*	<0.0044	0.0056*	ns	ns
Indeno(1,2,3-cd)pyrene	<0.0047	0.016*	<0.0047	0.25	0.0048*	1.6*	0.11*	0.37*	<0.094	<0.11	0.012*	0.0059*	0.061*	0.0050*	0.0079*	ns	ns
Chrysene	0.0051*	0.040*	<0.0035	0.38	0.0095*	5.3	0.35*	1.3	0.25*	0.19*	0.030*	0.0070*	0.12*	0.0077*	0.013*	0.2	0.02
Dibenzo(a,h)anthracene	<0.0032	0.0054*	<0.0032	0.073*	<0.0032	<0.32	0.042*	0.12*	<0.064	<0.075	0.0037*	<0.0032	0.021*	<0.0032	<0.0032	ns	ns
Fluoranthene	0.016*	0.060	0.0045*	0.51	0.013*	16.4	1.2	5.3	0.72*	0.43*	0.064	0.017*	0.50	0.071	0.017*	400	80
Fluorene	0.19	<0.0048	<0.0048	0.028*	0.0082*	80.2	4.8	26.7	8.7	2.3	0.74	0.15	1.9	2.3	0.22	400	80
2-Methylnaphthalene	0.031*	0.0046*	0.021*	0.20	0.022*	2.0*	0.37*	0.94	0.77*	0.76*	0.35	0.032*	0.13*	0.098	0.060	ns	ns
1-Methylnaphthalene	0.018*	<0.0050	0.013*	0.40	0.017*	104	1.1	9.0	5.7	13.1	0.37	0.014*	0.16*	0.20	0.043*	ns	ns
Naphthalene	0.042*	0.011*	0.081	0.88	0.030*	24.7	1.1	3.7	5.7	1.1*	0.77	0.0049*	0.34	0.31	0.15	100	10
Phenanthrene	0.035*	0.044*	0.0086*	0.16	0.021*	10.4	0.42*	9.2	0.93*	0.85*	0.049	0.018*	0.084*	0.052	0.039*	ns	ns
Pyrene	0.039*	0.075	<0.0048	0.45	0.017*	24.5	2.4	8.2	1.5	0.45*	0.15	0.057	0.50	0.082	0.18	250	50

- All results are listed in in ug/l

- ns = no standard established

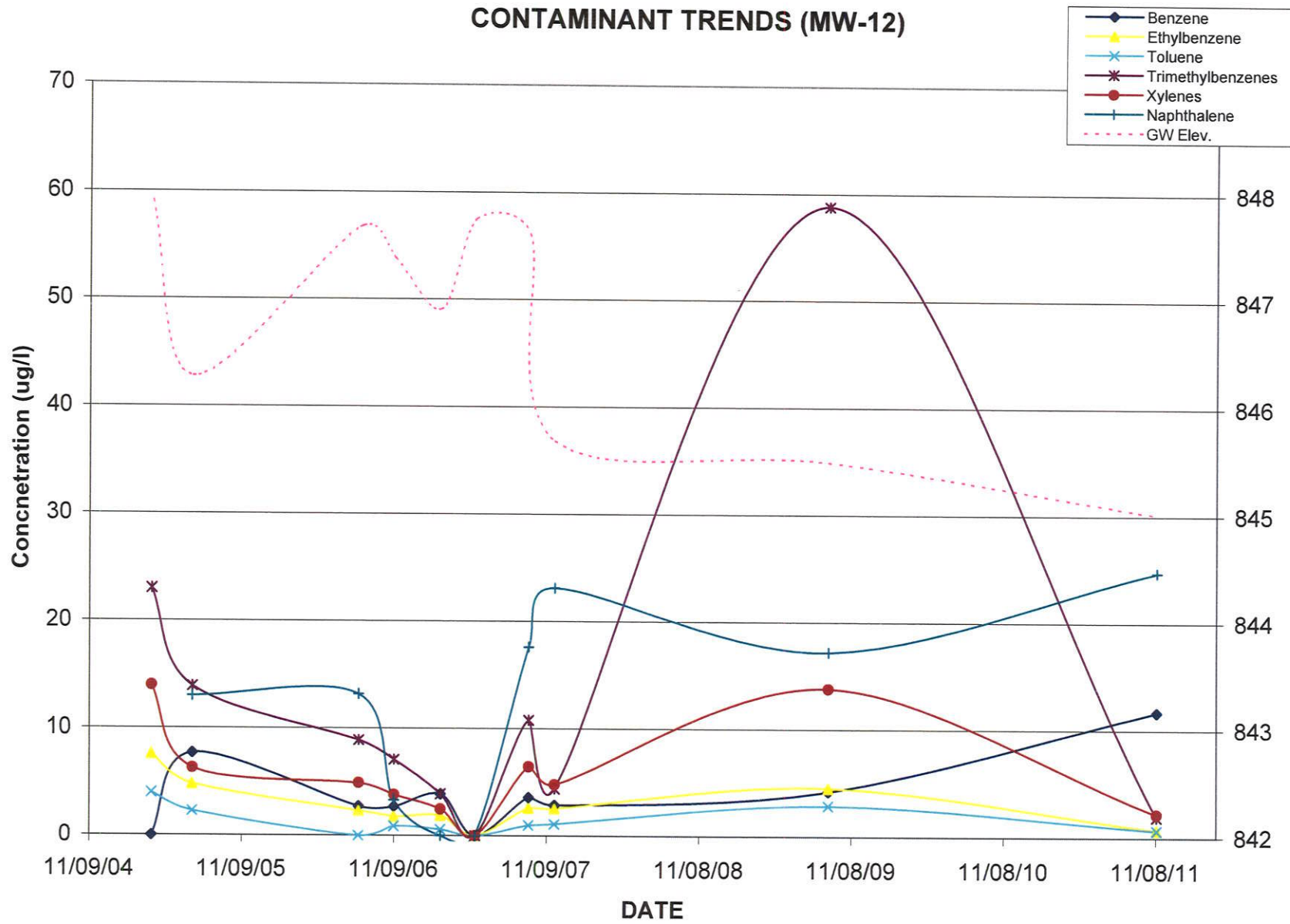
*- Concentration estimated, below level of quantitation

- PAL = NR140 Preventative Action Limit (exceedances bold)

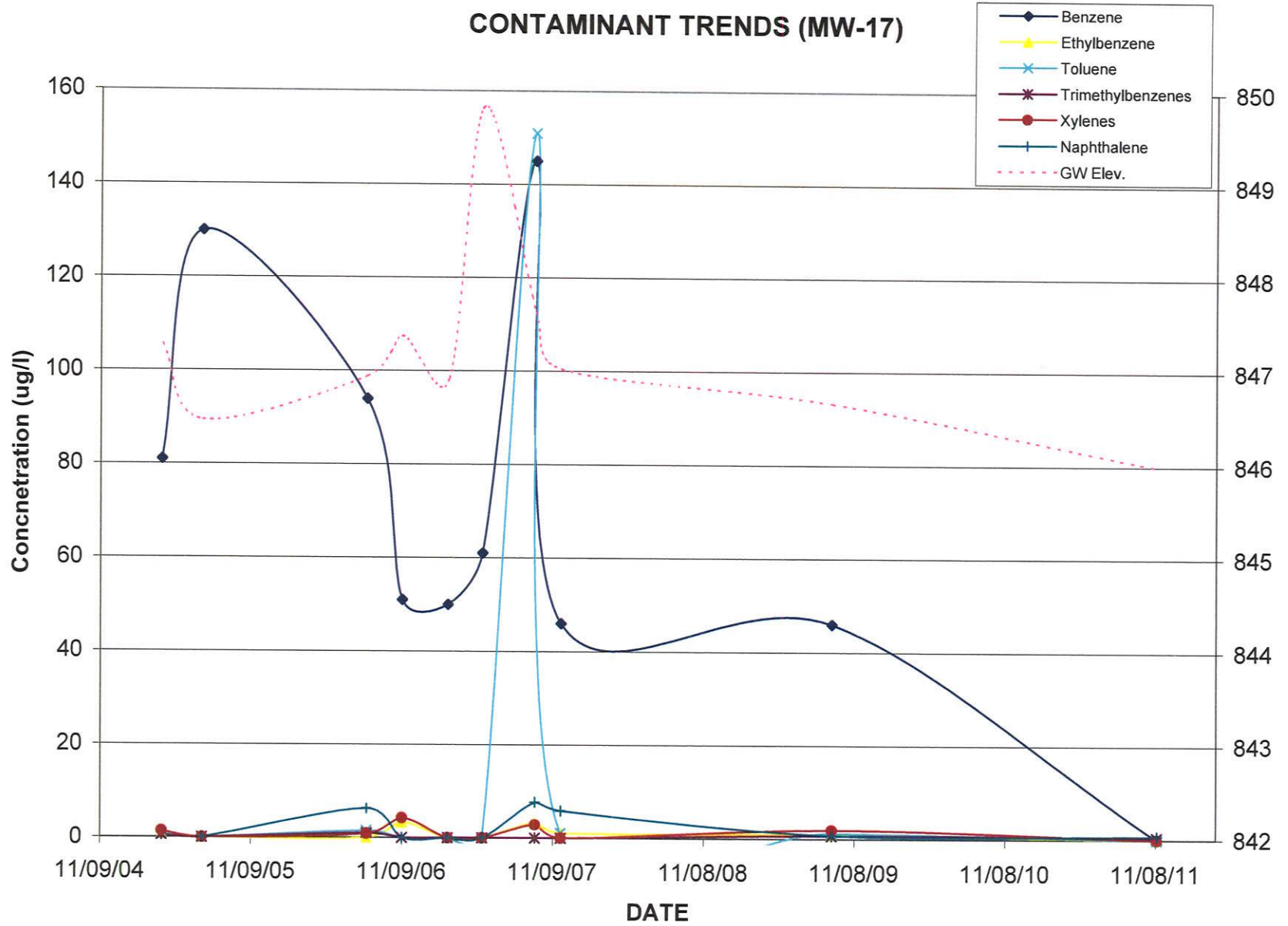
- ES = NR140 Enforcement Standard (exceedances shaded)

TREND GRAPHS

CONTAMINANT TRENDS (MW-12)



CONTAMINANT TRENDS (MW-17)



LABORATORY REPORTS



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

September 02, 2011

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: BREARLY
Pace Project No.: 4050049

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: BREARLY
Pace Project No.: 4050049

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BREARLY
Pace Project No.: 4050049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4050049001	PIT 1, NORTH	Solid	08/17/11 12:50	08/25/11 10:22
4050049002	PIT 1, SOUTH	Solid	08/17/11 13:00	08/25/11 10:22
4050049003	PIT 1, EAST	Solid	08/17/11 13:10	08/25/11 10:22
4050049004	PIT 1, WEST	Solid	08/17/11 13:15	08/25/11 10:22
4050049005	PIT 3, BASE	Solid	08/17/11 14:30	08/25/11 10:22
4050049006	PIT 3, NORTH	Solid	08/18/11 07:00	08/25/11 10:22
4050049007	PIT 3, SOUTH	Solid	08/18/11 07:05	08/25/11 10:22
4050049008	PIT 3, EAST	Solid	08/18/11 07:10	08/25/11 10:22
4050049009	PIT 3, WEST	Solid	08/18/11 07:15	08/25/11 10:22

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: BREARLY
Pace Project No.: 4050049

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4050049001	PIT 1, NORTH	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049002	PIT 1, SOUTH	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049003	PIT 1, EAST	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049004	PIT 1, WEST	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049005	PIT 3, BASE	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049006	PIT 3, NORTH	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049007	PIT 3, SOUTH	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049008	PIT 3, EAST	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050049009	PIT 3, WEST	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: BREARLY
Pace Project No.: 4050049

Sample: PIT 1, NORTH Lab ID: 4050049001 Collected: 08/17/11 12:50 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	71.7	ug/kg	70.6	29.4	1	08/26/11 12:00	08/26/11 11:02	71-43-2	
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:02	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:02	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:02	108-88-3	W
1,2,4-Trimethylbenzene	73.3	ug/kg	70.6	29.4	1	08/26/11 12:00	08/26/11 11:02	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:02	108-67-8	W
m&p-Xylene	97.5J	ug/kg	141	58.9	1	08/26/11 12:00	08/26/11 11:02	179601-23-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:02	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/26/11 12:00	08/26/11 11:02	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.8	ug/kg	19.6	2.8	1	08/26/11 12:00	08/26/11 14:38	83-32-9	
Acenaphthylene	<3.1	ug/kg	19.6	3.1	1	08/26/11 12:00	08/26/11 14:38	208-96-8	
Anthracene	5.3J	ug/kg	19.6	4.6	1	08/26/11 12:00	08/26/11 14:38	120-12-7	
Benzo(a)anthracene	8.9J	ug/kg	19.6	2.8	1	08/26/11 12:00	08/26/11 14:38	56-55-3	
Benzo(a)pyrene	5.8J	ug/kg	19.6	3.2	1	08/26/11 12:00	08/26/11 14:38	50-32-8	
Benzo(b)fluoranthene	6.8J	ug/kg	19.6	3.4	1	08/26/11 12:00	08/26/11 14:38	205-99-2	
Benzo(g,h,i)perylene	6.1J	ug/kg	19.6	2.6	1	08/26/11 12:00	08/26/11 14:38	191-24-2	
Benzo(k)fluoranthene	6.7J	ug/kg	19.6	3.6	1	08/26/11 12:00	08/26/11 14:38	207-08-9	
Chrysene	11.8J	ug/kg	19.6	3.6	1	08/26/11 12:00	08/26/11 14:38	218-01-9	
Dibenz(a,h)anthracene	<5.3	ug/kg	19.6	5.3	1	08/26/11 12:00	08/26/11 14:38	53-70-3	
Fluoranthene	28.6	ug/kg	19.6	9.8	1	08/26/11 12:00	08/26/11 14:38	206-44-0	
Fluorene	<4.9	ug/kg	19.6	4.9	1	08/26/11 12:00	08/26/11 14:38	86-73-7	
Indeno(1,2,3-cd)pyrene	4.9J	ug/kg	19.6	2.8	1	08/26/11 12:00	08/26/11 14:38	193-39-5	
1-Methylnaphthalene	6.8J	ug/kg	19.6	3.0	1	08/26/11 12:00	08/26/11 14:38	90-12-0	
2-Methylnaphthalene	5.8J	ug/kg	19.6	3.0	1	08/26/11 12:00	08/26/11 14:38	91-57-6	
Naphthalene	7.8J	ug/kg	19.6	3.4	1	08/26/11 12:00	08/26/11 14:38	91-20-3	
Phenanthrene	14.6J	ug/kg	19.6	4.3	1	08/26/11 12:00	08/26/11 14:38	85-01-8	
Pyrene	24.8	ug/kg	19.6	3.6	1	08/26/11 12:00	08/26/11 14:38	129-00-0	
2-Fluorobiphenyl (S)	68	%	38-130		1	08/26/11 12:00	08/26/11 14:38	321-60-8	
Terphenyl-d14 (S)	74	%	36-130		1	08/26/11 12:00	08/26/11 14:38	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.1	%	0.10	0.10	1		09/02/11 07:53		

Sample: PIT 1, SOUTH Lab ID: 4050049002 Collected: 08/17/11 13:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	100-41-4	W

Date: 09/02/2011 03:10 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BREARLY

Pace Project No.: 4050049

Sample: PIT 1, SOUTH Lab ID: 4050049002 Collected: 08/17/11 13:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/26/11 12:00	08/26/11 11:28	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 11:28	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/26/11 12:00	08/26/11 11:28	98-08-8	1q,P4

8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546

Acenaphthene	<2.5	ug/kg	17.8	2.5	1	08/26/11 12:00	08/26/11 14:55	83-32-9	
Acenaphthylene	<2.8	ug/kg	17.8	2.8	1	08/26/11 12:00	08/26/11 14:55	208-96-8	
Anthracene	<4.1	ug/kg	17.8	4.1	1	08/26/11 12:00	08/26/11 14:55	120-12-7	
Benzo(a)anthracene	2.6J	ug/kg	17.8	2.5	1	08/26/11 12:00	08/26/11 14:55	56-55-3	
Benzo(a)pyrene	3.3J	ug/kg	17.8	2.9	1	08/26/11 12:00	08/26/11 14:55	50-32-8	
Benzo(b)fluoranthene	3.1J	ug/kg	17.8	3.1	1	08/26/11 12:00	08/26/11 14:55	205-99-2	
Benzo(g,h,i)perylene	3.8J	ug/kg	17.8	2.3	1	08/26/11 12:00	08/26/11 14:55	191-24-2	
Benzo(k)fluoranthene	<3.3	ug/kg	17.8	3.3	1	08/26/11 12:00	08/26/11 14:55	207-08-9	
Chrysene	3.7J	ug/kg	17.8	3.2	1	08/26/11 12:00	08/26/11 14:55	218-01-9	
Dibenz(a,h)anthracene	<4.8	ug/kg	17.8	4.8	1	08/26/11 12:00	08/26/11 14:55	53-70-3	
Fluoranthene	<8.9	ug/kg	17.8	8.9	1	08/26/11 12:00	08/26/11 14:55	206-44-0	
Fluorene	<4.4	ug/kg	17.8	4.4	1	08/26/11 12:00	08/26/11 14:55	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.5	ug/kg	17.8	2.5	1	08/26/11 12:00	08/26/11 14:55	193-39-5	
1-Methylnaphthalene	<2.7	ug/kg	17.8	2.7	1	08/26/11 12:00	08/26/11 14:55	90-12-0	
2-Methylnaphthalene	<2.7	ug/kg	17.8	2.7	1	08/26/11 12:00	08/26/11 14:55	91-57-6	
Naphthalene	<3.1	ug/kg	17.8	3.1	1	08/26/11 12:00	08/26/11 14:55	91-20-3	
Phenanthrene	<3.9	ug/kg	17.8	3.9	1	08/26/11 12:00	08/26/11 14:55	85-01-8	
Pyrene	5.9J	ug/kg	17.8	3.3	1	08/26/11 12:00	08/26/11 14:55	129-00-0	
2-Fluorobiphenyl (S)	72	%	38-130		1	08/26/11 12:00	08/26/11 14:55	321-60-8	
Terphenyl-d14 (S)	78	%	36-130		1	08/26/11 12:00	08/26/11 14:55	1718-51-0	

Percent Moisture

Analytical Method: ASTM D2974-87

Percent Moisture	6.3	%	0.10	0.10	1		09/02/11 07:53		
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Sample: PIT 1, EAST Lab ID: 4050049003 Collected: 08/17/11 13:10 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	713	ug/kg	88.6	36.9	1	08/26/11 12:00	08/26/11 12:19	71-43-2	
Ethylbenzene	161	ug/kg	88.6	36.9	1	08/26/11 12:00	08/26/11 12:19	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 12:19	1634-04-4	W
Toluene	157	ug/kg	88.6	36.9	1	08/26/11 12:00	08/26/11 12:19	108-88-3	

Date: 09/02/2011 03:10 PM

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ANALYTICAL RESULTS

Project: BREARLY
Pace Project No.: 4050049

Sample: PIT 1, EAST Lab ID: 4050049003 Collected: 08/17/11 13:10 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
1,2,4-Trimethylbenzene	504	ug/kg	88.6	36.9	1	08/26/11 12:00	08/26/11 12:19	95-63-6	
1,3,5-Trimethylbenzene	156	ug/kg	88.6	36.9	1	08/26/11 12:00	08/26/11 12:19	108-67-8	
m&p-Xylene	595	ug/kg	177	73.8	1	08/26/11 12:00	08/26/11 12:19	179601-23-1	
o-Xylene	91.5	ug/kg	88.6	36.9	1	08/26/11 12:00	08/26/11 12:19	95-47-6	
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	08/26/11 12:00	08/26/11 12:19	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	10.2J	ug/kg	24.6	3.5	1	08/26/11 12:00	08/26/11 15:13	83-32-9	
Acenaphthylene	13.3J	ug/kg	24.6	3.9	1	08/26/11 12:00	08/26/11 15:13	208-96-8	
Anthracene	48.6	ug/kg	24.6	5.7	1	08/26/11 12:00	08/26/11 15:13	120-12-7	
Benzo(a)anthracene	99.1	ug/kg	24.6	3.5	1	08/26/11 12:00	08/26/11 15:13	56-55-3	
Benzo(a)pyrene	71.5	ug/kg	24.6	4.0	1	08/26/11 12:00	08/26/11 15:13	50-32-8	
Benzo(b)fluoranthene	58.2	ug/kg	24.6	4.3	1	08/26/11 12:00	08/26/11 15:13	205-99-2	
Benzo(g,h,i)perylene	43.2	ug/kg	24.6	3.2	1	08/26/11 12:00	08/26/11 15:13	191-24-2	
Benzo(k)fluoranthene	60.8	ug/kg	24.6	4.6	1	08/26/11 12:00	08/26/11 15:13	207-08-9	
Chrysene	108	ug/kg	24.6	4.5	1	08/26/11 12:00	08/26/11 15:13	218-01-9	
Dibenz(a,h)anthracene	13.4J	ug/kg	24.6	6.7	1	08/26/11 12:00	08/26/11 15:13	53-70-3	
Fluoranthene	171	ug/kg	24.6	12.3	1	08/26/11 12:00	08/26/11 15:13	206-44-0	
Fluorene	24.4J	ug/kg	24.6	6.1	1	08/26/11 12:00	08/26/11 15:13	86-73-7	
Indeno(1,2,3-cd)pyrene	35.6	ug/kg	24.6	3.5	1	08/26/11 12:00	08/26/11 15:13	193-39-5	
1-Methylnaphthalene	74.5	ug/kg	24.6	3.8	1	08/26/11 12:00	08/26/11 15:13	90-12-0	
2-Methylnaphthalene	86.7	ug/kg	24.6	3.8	1	08/26/11 12:00	08/26/11 15:13	91-57-6	
Naphthalene	101	ug/kg	24.6	4.3	1	08/26/11 12:00	08/26/11 15:13	91-20-3	
Phenanthrene	186	ug/kg	24.6	5.4	1	08/26/11 12:00	08/26/11 15:13	85-01-8	
Pyrene	226	ug/kg	24.6	4.5	1	08/26/11 12:00	08/26/11 15:13	129-00-0	
2-Fluorobiphenyl (S)	62	%	38-130		1	08/26/11 12:00	08/26/11 15:13	321-60-8	
Terphenyl-d14 (S)	71	%	36-130		1	08/26/11 12:00	08/26/11 15:13	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	32.3	%	0.10	0.10	1		09/02/11 07:53		

Sample: PIT 1, WEST Lab ID: 4050049004 Collected: 08/17/11 13:15 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	1410J	ug/kg	2840	1180	40	08/26/11 12:00	08/29/11 11:05	71-43-2	
Ethylbenzene	3000	ug/kg	2840	1180	40	08/26/11 12:00	08/29/11 11:05	100-41-4	
Methyl-tert-butyl ether	<1000	ug/kg	2400	1000	40	08/26/11 12:00	08/29/11 11:05	1634-04-4	W
Toluene	<1000	ug/kg	2400	1000	40	08/26/11 12:00	08/29/11 11:05	108-88-3	W
1,2,4-Trimethylbenzene	18800	ug/kg	2840	1180	40	08/26/11 12:00	08/29/11 11:05	95-63-6	
1,3,5-Trimethylbenzene	<1000	ug/kg	2400	1000	40	08/26/11 12:00	08/29/11 11:05	108-67-8	W

Date: 09/02/2011 03:10 PM

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ANALYTICAL RESULTS

Project: BREARLY
Pace Project No.: 4050049

Sample: PIT 1, WEST Lab ID: 4050049004 Collected: 08/17/11 13:15 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
m&p-Xylene	5790	ug/kg	5670	2360	40	08/26/11 12:00	08/29/11 11:05	179601-23-1	
o-Xylene	3040	ug/kg	2840	1180	40	08/26/11 12:00	08/29/11 11:05	95-47-6	
a,a,a-Trifluorotoluene (S)	103	%	80-120		40	08/26/11 12:00	08/29/11 11:05	98-08-8	D3
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	2690	ug/kg	1970	277	100	08/26/11 12:00	08/29/11 13:23	83-32-9	
Acenaphthylene	958J	ug/kg	1970	314	100	08/26/11 12:00	08/29/11 13:23	208-96-8	
Anthracene	1250J	ug/kg	1970	458	100	08/26/11 12:00	08/29/11 13:23	120-12-7	
Benzo(a)anthracene	442J	ug/kg	1970	280	100	08/26/11 12:00	08/29/11 13:23	56-55-3	
Benzo(a)pyrene	<322	ug/kg	1970	322	100	08/26/11 12:00	08/29/11 13:23	50-32-8	
Benzo(b)fluoranthene	<340	ug/kg	1970	340	100	08/26/11 12:00	08/29/11 13:23	205-99-2	
Benzo(g,h,i)perylene	268J	ug/kg	1970	260	100	08/26/11 12:00	08/29/11 13:23	191-24-2	
Benzo(k)fluoranthene	<366	ug/kg	1970	366	100	08/26/11 12:00	08/29/11 13:23	207-08-9	
Chrysene	489J	ug/kg	1970	357	100	08/26/11 12:00	08/29/11 13:23	218-01-9	
Dibenz(a,h)anthracene	<536	ug/kg	1970	536	100	08/26/11 12:00	08/29/11 13:23	53-70-3	
Fluoranthene	1370J	ug/kg	1970	984	100	08/26/11 12:00	08/29/11 13:23	206-44-0	
Fluorene	4030	ug/kg	1970	490	100	08/26/11 12:00	08/29/11 13:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<280	ug/kg	1970	280	100	08/26/11 12:00	08/29/11 13:23	193-39-5	
1-Methylnaphthalene	58900	ug/kg	1970	301	100	08/26/11 12:00	08/29/11 13:23	90-12-0	
2-Methylnaphthalene	17100	ug/kg	1970	301	100	08/26/11 12:00	08/29/11 13:23	91-57-6	
Naphthalene	7750	ug/kg	1970	345	100	08/26/11 12:00	08/29/11 13:23	91-20-3	
Phenanthrene	9790	ug/kg	1970	433	100	08/26/11 12:00	08/29/11 13:23	85-01-8	
Pyrene	1230J	ug/kg	1970	360	100	08/26/11 12:00	08/29/11 13:23	129-00-0	
2-Fluorobiphenyl (S)	76	%	38-130		100	08/26/11 12:00	08/29/11 13:23	321-60-8	
Terphenyl-d14 (S)	51	%	36-130		100	08/26/11 12:00	08/29/11 13:23	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.4	%	0.10	0.10	1		09/02/11 07:53		

Sample: PIT 3, BASE Lab ID: 4050049005 Collected: 08/17/11 14:30 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	1370	ug/kg	175	73.0	2	08/26/11 12:00	08/26/11 13:36	71-43-2	
Ethylbenzene	966	ug/kg	175	73.0	2	08/26/11 12:00	08/26/11 13:36	100-41-4	
Methyl-tert-butyl ether	<50.0	ug/kg	120	50.0	2	08/26/11 12:00	08/26/11 13:36	1634-04-4	W
Toluene	166J	ug/kg	175	73.0	2	08/26/11 12:00	08/26/11 13:36	108-88-3	
1,2,4-Trimethylbenzene	4530	ug/kg	175	73.0	2	08/26/11 12:00	08/26/11 13:36	95-63-6	
1,3,5-Trimethylbenzene	1040	ug/kg	175	73.0	2	08/26/11 12:00	08/26/11 13:36	108-67-8	
m&p-Xylene	2680	ug/kg	350	146	2	08/26/11 12:00	08/26/11 13:36	179601-23-1	
o-Xylene	180	ug/kg	175	73.0	2	08/26/11 12:00	08/26/11 13:36	95-47-6	

ANALYTICAL RESULTS

Project: BREARLY
Pace Project No.: 4050049

Sample: PIT 3, BASE **Lab ID: 4050049005** Collected: 08/17/11 14:30 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
a,a,a-Trifluorotoluene (S)	109 %.		80-120		2	08/26/11 12:00	08/26/11 13:36	98-08-8	D3
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	173J	ug/kg	243	34.2	10	08/26/11 12:00	08/29/11 11:06	83-32-9	
Acenaphthylene	56.0J	ug/kg	243	38.7	10	08/26/11 12:00	08/29/11 11:06	208-96-8	
Anthracene	89.2J	ug/kg	243	56.6	10	08/26/11 12:00	08/29/11 11:06	120-12-7	
Benzo(a)anthracene	<34.6	ug/kg	243	34.6	10	08/26/11 12:00	08/29/11 11:06	56-55-3	
Benzo(a)pyrene	<39.8	ug/kg	243	39.8	10	08/26/11 12:00	08/29/11 11:06	50-32-8	
Benzo(b)fluoranthene	<42.1	ug/kg	243	42.1	10	08/26/11 12:00	08/29/11 11:06	205-99-2	
Benzo(g,h,i)perylene	<32.1	ug/kg	243	32.1	10	08/26/11 12:00	08/29/11 11:06	191-24-2	
Benzo(k)fluoranthene	<45.2	ug/kg	243	45.2	10	08/26/11 12:00	08/29/11 11:06	207-08-9	
Chrysene	<44.1	ug/kg	243	44.1	10	08/26/11 12:00	08/29/11 11:06	218-01-9	
Dibenz(a,h)anthracene	<66.2	ug/kg	243	66.2	10	08/26/11 12:00	08/29/11 11:06	53-70-3	
Fluoranthene	<122	ug/kg	243	122	10	08/26/11 12:00	08/29/11 11:06	206-44-0	
Fluorene	304	ug/kg	243	60.5	10	08/26/11 12:00	08/29/11 11:06	86-73-7	
Indeno(1,2,3-cd)pyrene	<34.6	ug/kg	243	34.6	10	08/26/11 12:00	08/29/11 11:06	193-39-5	
1-Methylnaphthalene	3010	ug/kg	243	37.1	10	08/26/11 12:00	08/29/11 11:06	90-12-0	
2-Methylnaphthalene	4970	ug/kg	243	37.1	10	08/26/11 12:00	08/29/11 11:06	91-57-6	
Naphthalene	1490	ug/kg	243	42.6	10	08/26/11 12:00	08/29/11 11:06	91-20-3	
Phenanthrene	905	ug/kg	243	53.5	10	08/26/11 12:00	08/29/11 11:06	85-01-8	
Pyrene	60.1J	ug/kg	243	44.5	10	08/26/11 12:00	08/29/11 11:06	129-00-0	
2-Fluorobiphenyl (S)	63 %.		38-130		10	08/26/11 12:00	08/29/11 11:06	321-60-8	
Terphenyl-d14 (S)	62 %.		36-130		10	08/26/11 12:00	08/29/11 11:06	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	31.5 %		0.10	0.10	1		09/02/11 07:54		

Sample: PIT 3, NORTH **Lab ID: 4050049006** Collected: 08/18/11 07:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	689	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 12:22	71-43-2	
Ethylbenzene	422	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 12:22	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 12:22	1634-04-4	W
Toluene	60.5J	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 12:22	108-88-3	
1,2,4-Trimethylbenzene	386	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 12:22	95-63-6	
1,3,5-Trimethylbenzene	294	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 12:22	108-67-8	
m&p-Xylene	650	ug/kg	141	58.7	1	08/26/11 12:00	08/29/11 12:22	179601-23-1	
o-Xylene	54.0J	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 12:22	95-47-6	
a,a,a-Trifluorotoluene (S)	105 %.		80-120		1	08/26/11 12:00	08/29/11 12:22	98-08-8	

ANALYTICAL RESULTS

Project: BREARLY
Pace Project No.: 4050049

Sample: PIT 3, NORTH Lab ID: 4050049006 Collected: 08/18/11 07:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	435	ug/kg	157	22.0	8	08/26/11 12:00	08/29/11 11:23	83-32-9	
Acenaphthylene	90.7J	ug/kg	157	24.9	8	08/26/11 12:00	08/29/11 11:23	208-96-8	
Anthracene	157	ug/kg	157	36.5	8	08/26/11 12:00	08/29/11 11:23	120-12-7	
Benzo(a)anthracene	38.4J	ug/kg	157	22.3	8	08/26/11 12:00	08/29/11 11:23	56-55-3	
Benzo(a)pyrene	33.6J	ug/kg	157	25.6	8	08/26/11 12:00	08/29/11 11:23	50-32-8	
Benzo(b)fluoranthene	28.2J	ug/kg	157	27.1	8	08/26/11 12:00	08/29/11 11:23	205-99-2	
Benzo(g,h,i)perylene	23.8J	ug/kg	157	20.7	8	08/26/11 12:00	08/29/11 11:23	191-24-2	
Benzo(k)fluoranthene	35.2J	ug/kg	157	29.1	8	08/26/11 12:00	08/29/11 11:23	207-08-9	
Chrysene	44.4J	ug/kg	157	28.4	8	08/26/11 12:00	08/29/11 11:23	218-01-9	
Dibenz(a,h)anthracene	<42.6	ug/kg	157	42.6	8	08/26/11 12:00	08/29/11 11:23	53-70-3	
Fluoranthene	113J	ug/kg	157	78.3	8	08/26/11 12:00	08/29/11 11:23	206-44-0	
Fluorene	504	ug/kg	157	39.0	8	08/26/11 12:00	08/29/11 11:23	86-73-7	
Indeno(1,2,3-cd)pyrene	<22.3	ug/kg	157	22.3	8	08/26/11 12:00	08/29/11 11:23	193-39-5	
1-Methylnaphthalene	2450	ug/kg	157	23.9	8	08/26/11 12:00	08/29/11 11:23	90-12-0	
2-Methylnaphthalene	2660	ug/kg	157	23.9	8	08/26/11 12:00	08/29/11 11:23	91-57-6	
Naphthalene	418	ug/kg	157	27.4	8	08/26/11 12:00	08/29/11 11:23	91-20-3	L2
Phenanthrene	1270	ug/kg	157	34.4	8	08/26/11 12:00	08/29/11 11:23	85-01-8	
Pyrene	162	ug/kg	157	28.7	8	08/26/11 12:00	08/29/11 11:23	129-00-0	
2-Fluorobiphenyl (S)	62 %		38-130		8	08/26/11 12:00	08/29/11 11:23	321-60-8	
Terphenyl-d14 (S)	59 %		36-130		8	08/26/11 12:00	08/29/11 11:23	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.9	%	0.10	0.10	1		09/02/11 07:54		

Sample: PIT 3, SOUTH Lab ID: 4050049007 Collected: 08/18/11 07:05 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	93.9	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 10:14	71-43-2	
Ethylbenzene	295	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 10:14	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 10:14	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 10:14	108-88-3	W
1,2,4-Trimethylbenzene	110	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 10:14	95-63-6	
1,3,5-Trimethylbenzene	61.1J	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 10:14	108-67-8	
m&p-Xylene	189	ug/kg	141	58.7	1	08/26/11 12:00	08/29/11 10:14	179601-23-1	
o-Xylene	44.1J	ug/kg	70.5	29.4	1	08/26/11 12:00	08/29/11 10:14	95-47-6	
a,a,a-Trifluorotoluene (S)	110	%	80-120		1	08/26/11 12:00	08/29/11 10:14	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	149	ug/kg	39.2	5.5	2	08/26/11 12:00	08/29/11 13:41	83-32-9	
Acenaphthylene	40.9	ug/kg	39.2	6.2	2	08/26/11 12:00	08/29/11 13:41	208-96-8	

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ANALYTICAL RESULTS

Project: BREARLY

Pace Project No.: 4050049

Sample: PIT 3, SOUTH Lab ID: 4050049007 Collected: 08/18/11 07:05 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Anthracene	120	ug/kg	39.2	9.1	2	08/26/11 12:00	08/29/11 13:41	120-12-7	
Benzo(a)anthracene	141	ug/kg	39.2	5.6	2	08/26/11 12:00	08/29/11 13:41	56-55-3	
Benzo(a)pyrene	133	ug/kg	39.2	6.4	2	08/26/11 12:00	08/29/11 13:41	50-32-8	
Benzo(b)fluoranthene	114	ug/kg	39.2	6.8	2	08/26/11 12:00	08/29/11 13:41	205-99-2	
Benzo(g,h,i)perylene	86.3	ug/kg	39.2	5.2	2	08/26/11 12:00	08/29/11 13:41	191-24-2	
Benzo(k)fluoranthene	116	ug/kg	39.2	7.3	2	08/26/11 12:00	08/29/11 13:41	207-08-9	
Chrysene	148	ug/kg	39.2	7.1	2	08/26/11 12:00	08/29/11 13:41	218-01-9	
Dibenz(a,h)anthracene	27.0J	ug/kg	39.2	10.7	2	08/26/11 12:00	08/29/11 13:41	53-70-3	
Fluoranthene	295	ug/kg	39.2	19.6	2	08/26/11 12:00	08/29/11 13:41	206-44-0	
Fluorene	226	ug/kg	39.2	9.7	2	08/26/11 12:00	08/29/11 13:41	86-73-7	
Indeno(1,2,3-cd)pyrene	76.3	ug/kg	39.2	5.6	2	08/26/11 12:00	08/29/11 13:41	193-39-5	
1-Methylnaphthalene	1010	ug/kg	39.2	6.0	2	08/26/11 12:00	08/29/11 13:41	90-12-0	
2-Methylnaphthalene	550	ug/kg	39.2	6.0	2	08/26/11 12:00	08/29/11 13:41	91-57-6	
Naphthalene	299	ug/kg	39.2	6.9	2	08/26/11 12:00	08/29/11 13:41	91-20-3	L2
Phenanthrene	624	ug/kg	39.2	8.6	2	08/26/11 12:00	08/29/11 13:41	85-01-8	
Pyrene	301	ug/kg	39.2	7.2	2	08/26/11 12:00	08/29/11 13:41	129-00-0	
2-Fluorobiphenyl (S)	63	%	38-130		2	08/26/11 12:00	08/29/11 13:41	321-60-8	
Terphenyl-d14 (S)	61	%	36-130		2	08/26/11 12:00	08/29/11 13:41	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.9	%	0.10	0.10	1		09/02/11 07:54		

Sample: PIT 3, EAST Lab ID: 4050049008 Collected: 08/18/11 07:10 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	137	ug/kg	72.1	30.1	1	08/26/11 12:00	08/29/11 14:07	71-43-2	
Ethylbenzene	76.9	ug/kg	72.1	30.1	1	08/26/11 12:00	08/29/11 14:07	100-41-4	
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 14:07	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 14:07	108-88-3	W
1,2,4-Trimethylbenzene	61.0J	ug/kg	72.1	30.1	1	08/26/11 12:00	08/29/11 14:07	95-63-6	
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 14:07	108-67-8	W
m&p-Xylene	141J	ug/kg	144	60.1	1	08/26/11 12:00	08/29/11 14:07	179601-23-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/29/11 14:07	95-47-6	W
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	08/26/11 12:00	08/29/11 14:07	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	25.4	ug/kg	20.0	2.8	1	08/26/11 12:00	08/26/11 17:47	83-32-9	
Acenaphthylene	6.8J	ug/kg	20.0	3.2	1	08/26/11 12:00	08/26/11 17:47	208-96-8	
Anthracene	48.5	ug/kg	20.0	4.7	1	08/26/11 12:00	08/26/11 17:47	120-12-7	
Benzo(a)anthracene	83.0	ug/kg	20.0	2.8	1	08/26/11 12:00	08/26/11 17:47	56-55-3	

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ANALYTICAL RESULTS

Project: BREARLY

Pace Project No.: 4050049

Sample: PIT 3, EAST Lab ID: 4050049008 Collected: 08/18/11 07:10 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Benzo(a)pyrene	85.4	ug/kg	20.0	3.3	1	08/26/11 12:00	08/26/11 17:47	50-32-8	
Benzo(b)fluoranthene	64.2	ug/kg	20.0	3.5	1	08/26/11 12:00	08/26/11 17:47	205-99-2	
Benzo(g,h,i)perylene	52.1	ug/kg	20.0	2.6	1	08/26/11 12:00	08/26/11 17:47	191-24-2	
Benzo(k)fluoranthene	72.7	ug/kg	20.0	3.7	1	08/26/11 12:00	08/26/11 17:47	207-08-9	
Chrysene	81.5	ug/kg	20.0	3.6	1	08/26/11 12:00	08/26/11 17:47	218-01-9	
Dibenz(a,h)anthracene	17.1J	ug/kg	20.0	5.5	1	08/26/11 12:00	08/26/11 17:47	53-70-3	
Fluoranthene	160	ug/kg	20.0	10.0	1	08/26/11 12:00	08/26/11 17:47	206-44-0	
Fluorene	51.7	ug/kg	20.0	5.0	1	08/26/11 12:00	08/26/11 17:47	86-73-7	
Indeno(1,2,3-cd)pyrene	46.3	ug/kg	20.0	2.8	1	08/26/11 12:00	08/26/11 17:47	193-39-5	
1-Methylnaphthalene	91.5	ug/kg	20.0	3.1	1	08/26/11 12:00	08/26/11 17:47	90-12-0	
2-Methylnaphthalene	69.7	ug/kg	20.0	3.1	1	08/26/11 12:00	08/26/11 17:47	91-57-6	
Naphthalene	27.1	ug/kg	20.0	3.5	1	08/26/11 12:00	08/26/11 17:47	91-20-3	L2
Phenanthrene	183	ug/kg	20.0	4.4	1	08/26/11 12:00	08/26/11 17:47	85-01-8	
Pyrene	136	ug/kg	20.0	3.7	1	08/26/11 12:00	08/26/11 17:47	129-00-0	
2-Fluorobiphenyl (S)	66 %.		38-130		1	08/26/11 12:00	08/26/11 17:47	321-60-8	
Terphenyl-d14 (S)	70 %.		36-130		1	08/26/11 12:00	08/26/11 17:47	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.8	%	0.10	0.10	1		09/02/11 07:54		

Sample: PIT 3, WEST Lab ID: 4050049009 Collected: 08/18/11 07:15 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<125	ug/kg	300	125	5	08/26/11 12:00	08/29/11 11:31	71-43-2	W
Ethylbenzene	1120	ug/kg	361	150	5	08/26/11 12:00	08/29/11 11:31	100-41-4	
Methyl-tert-butyl ether	<125	ug/kg	300	125	5	08/26/11 12:00	08/29/11 11:31	1634-04-4	W
Toluene	<125	ug/kg	300	125	5	08/26/11 12:00	08/29/11 11:31	108-88-3	W
1,2,4-Trimethylbenzene	4830	ug/kg	361	150	5	08/26/11 12:00	08/29/11 11:31	95-63-6	
1,3,5-Trimethylbenzene	1590	ug/kg	361	150	5	08/26/11 12:00	08/29/11 11:31	108-67-8	
m&p-Xylene	2540	ug/kg	721	301	5	08/26/11 12:00	08/29/11 11:31	179601-23-1	
o-Xylene	204J	ug/kg	361	150	5	08/26/11 12:00	08/29/11 11:31	95-47-6	
a,a,a-Trifluorotoluene (S)	107 %.		80-120		5	08/26/11 12:00	08/29/11 11:31	98-08-8	1q,D3, P4
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	673	ug/kg	160	22.5	8	08/26/11 12:00	08/29/11 11:40	83-32-9	
Acenaphthylene	147J	ug/kg	160	25.5	8	08/26/11 12:00	08/29/11 11:40	208-96-8	
Anthracene	406	ug/kg	160	37.3	8	08/26/11 12:00	08/29/11 11:40	120-12-7	
Benzo(a)anthracene	216	ug/kg	160	22.8	8	08/26/11 12:00	08/29/11 11:40	56-55-3	
Benzo(a)pyrene	174	ug/kg	160	26.2	8	08/26/11 12:00	08/29/11 11:40	50-32-8	

ANALYTICAL RESULTS

Project: BREARLY
Pace Project No.: 4050049

Sample: PIT 3, WEST Lab ID: 4050049009 Collected: 08/18/11 07:15 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546							
Benzo(b)fluoranthene	158J	ug/kg	160	27.7	8	08/26/11 12:00	08/29/11 11:40	205-99-2	
Benzo(g,h,i)perylene	107J	ug/kg	160	21.2	8	08/26/11 12:00	08/29/11 11:40	191-24-2	
Benzo(k)fluoranthene	150J	ug/kg	160	29.8	8	08/26/11 12:00	08/29/11 11:40	207-08-9	
Chrysene	214	ug/kg	160	29.1	8	08/26/11 12:00	08/29/11 11:40	218-01-9	
Dibenz(a,h)anthracene	<43.6	ug/kg	160	43.6	8	08/26/11 12:00	08/29/11 11:40	53-70-3	
Fluoranthene	520	ug/kg	160	80.1	8	08/26/11 12:00	08/29/11 11:40	206-44-0	
Fluorene	1100	ug/kg	160	39.9	8	08/26/11 12:00	08/29/11 11:40	86-73-7	
Indeno(1,2,3-cd)pyrene	93.4J	ug/kg	160	22.8	8	08/26/11 12:00	08/29/11 11:40	193-39-5	
1-Methylnaphthalene	4250	ug/kg	160	24.5	8	08/26/11 12:00	08/29/11 11:40	90-12-0	
2-Methylnaphthalene	2370	ug/kg	160	24.5	8	08/26/11 12:00	08/29/11 11:40	91-57-6	
Naphthalene	806	ug/kg	160	28.1	8	08/26/11 12:00	08/29/11 11:40	91-20-3	L2
Phenanthrene	2630	ug/kg	160	35.2	8	08/26/11 12:00	08/29/11 11:40	85-01-8	
Pyrene	586	ug/kg	160	29.3	8	08/26/11 12:00	08/29/11 11:40	129-00-0	
2-Fluorobiphenyl (S)	61 %		38-130		8	08/26/11 12:00	08/29/11 11:40	321-60-8	
Terphenyl-d14 (S)	56 %		36-130		8	08/26/11 12:00	08/29/11 11:40	1718-51-0	
Percent Moisture		Analytical Method: ASTM D2974-87							
Percent Moisture	16.8	%	0.10	0.10	1		09/02/11 07:54		

QUALITY CONTROL DATA

Project: BREARLY
Pace Project No.: 4050049

QC Batch: GCV/7121 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4050049001, 4050049002, 4050049003, 4050049004, 4050049005, 4050049006, 4050049007, 4050049008, 4050049009

METHOD BLANK: 495113 Matrix: Solid
Associated Lab Samples: 4050049001, 4050049002, 4050049003, 4050049004, 4050049005, 4050049006, 4050049007, 4050049008, 4050049009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	08/26/11 08:52	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	08/26/11 08:52	
Benzene	ug/kg	<25.0	60.0	08/26/11 08:52	
Ethylbenzene	ug/kg	<25.0	60.0	08/26/11 08:52	
m&p-Xylene	ug/kg	<50.0	120	08/26/11 08:52	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	08/26/11 08:52	
o-Xylene	ug/kg	<25.0	60.0	08/26/11 08:52	
Toluene	ug/kg	<25.0	60.0	08/26/11 08:52	
a,a,a-Trifluorotoluene (S)	%	103	80-120	08/26/11 08:52	

Parameter	Units	495114		495115		% Rec Limits	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec				
1,2,4-Trimethylbenzene	ug/kg	1000	1160	1200	116	120	80-120	3	20
1,3,5-Trimethylbenzene	ug/kg	1000	1130	1160	113	116	80-120	3	20
Benzene	ug/kg	1000	1170	1190	117	119	80-120	2	20
Ethylbenzene	ug/kg	1000	1130	1160	113	116	80-120	2	20
m&p-Xylene	ug/kg	2000	2280	2340	114	117	80-120	2	20
Methyl-tert-butyl ether	ug/kg	1000	1130	1160	113	116	80-120	3	20
o-Xylene	ug/kg	1000	1130	1160	113	116	80-120	2	20
Toluene	ug/kg	1000	1150	1170	115	117	80-120	2	20
a,a,a-Trifluorotoluene (S)	%				102	102	80-120		

QUALITY CONTROL DATA

Project: BREARLY
Pace Project No.: 4050049

QC Batch: OEXT/12376 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4050049001, 4050049002, 4050049003, 4050049004, 4050049005

METHOD BLANK: 495131 Matrix: Solid
Associated Lab Samples: 4050049001, 4050049002, 4050049003, 4050049004, 4050049005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.5	16.7	08/26/11 10:38	
2-Methylnaphthalene	ug/kg	<2.5	16.7	08/26/11 10:38	
Acenaphthene	ug/kg	<2.3	16.7	08/26/11 10:38	
Acenaphthylene	ug/kg	<2.7	16.7	08/26/11 10:38	
Anthracene	ug/kg	<3.9	16.7	08/26/11 10:38	
Benzo(a)anthracene	ug/kg	<2.4	16.7	08/26/11 10:38	
Benzo(a)pyrene	ug/kg	<2.7	16.7	08/26/11 10:38	
Benzo(b)fluoranthene	ug/kg	<2.9	16.7	08/26/11 10:38	
Benzo(g,h,i)perylene	ug/kg	<2.2	16.7	08/26/11 10:38	
Benzo(k)fluoranthene	ug/kg	<3.1	16.7	08/26/11 10:38	
Chrysene	ug/kg	<3.0	16.7	08/26/11 10:38	
Dibenz(a,h)anthracene	ug/kg	<4.5	16.7	08/26/11 10:38	
Fluoranthene	ug/kg	<8.3	16.7	08/26/11 10:38	
Fluorene	ug/kg	<4.1	16.7	08/26/11 10:38	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.4	16.7	08/26/11 10:38	
Naphthalene	ug/kg	<2.9	16.7	08/26/11 10:38	
Phenanthrene	ug/kg	<3.7	16.7	08/26/11 10:38	
Pyrene	ug/kg	<3.1	16.7	08/26/11 10:38	
2-Fluorobiphenyl (S)	%	75	38-130	08/26/11 10:38	
Terphenyl-d14 (S)	%	79	36-130	08/26/11 10:38	

LABORATORY CONTROL SAMPLE: 495132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	252	75	56-130	
2-Methylnaphthalene	ug/kg	333	250	75	57-130	
Acenaphthene	ug/kg	333	253	76	62-130	
Acenaphthylene	ug/kg	333	255	77	62-130	
Anthracene	ug/kg	333	296	89	62-130	
Benzo(a)anthracene	ug/kg	333	272	82	60-130	
Benzo(a)pyrene	ug/kg	333	295	88	62-130	
Benzo(b)fluoranthene	ug/kg	333	283	85	61-130	
Benzo(g,h,i)perylene	ug/kg	333	306	92	52-130	
Benzo(k)fluoranthene	ug/kg	333	299	90	61-130	
Chrysene	ug/kg	333	276	83	54-130	
Dibenz(a,h)anthracene	ug/kg	333	296	89	55-130	
Fluoranthene	ug/kg	333	288	86	65-130	
Fluorene	ug/kg	333	261	78	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	302	91	55-130	
Naphthalene	ug/kg	333	227	68	59-130	
Phenanthrene	ug/kg	333	280	84	62-130	

Date: 09/02/2011 03:10 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BREARLY

Pace Project No.: 4050049

LABORATORY CONTROL SAMPLE: 495132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	270	81	58-130	
2-Fluorobiphenyl (S)	%.			72	38-130	
Terphenyl-d14 (S)	%.			78	36-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 495133 495134

Parameter	Units	4050062001		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec				
1-Methylnaphthalene	ug/kg	<2.6	344	344	234	254	68	74	44-130	8	22	
2-Methylnaphthalene	ug/kg	<2.6	344	344	235	254	68	74	43-130	8	20	
Acenaphthene	ug/kg	<2.4	344	344	232	250	67	72	47-130	7	20	
Acenaphthylene	ug/kg	<2.7	344	344	235	254	68	74	51-130	8	20	
Anthracene	ug/kg	<4.0	344	344	264	272	77	79	45-130	3	22	
Benzo(a)anthracene	ug/kg	<2.4	344	344	239	258	69	75	44-130	8	27	
Benzo(a)pyrene	ug/kg	<2.8	344	344	254	278	74	81	49-130	9	27	
Benzo(b)fluoranthene	ug/kg	<3.0	344	344	251	276	73	80	41-130	9	32	
Benzo(g,h,i)perylene	ug/kg	<2.3	344	344	263	288	76	83	39-130	9	28	
Benzo(k)fluoranthene	ug/kg	<3.2	344	344	251	270	73	78	41-130	7	26	
Chrysene	ug/kg	<3.1	344	344	241	268	70	78	45-130	11	28	
Dibenz(a,h)anthracene	ug/kg	<4.7	344	344	255	279	74	81	39-130	9	25	
Fluoranthene	ug/kg	<8.6	344	344	255	274	74	79	47-130	7	25	
Fluorene	ug/kg	<4.3	344	344	237	296	69	86	46-130	22	20 D6	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.4	344	344	258	283	75	82	39-130	9	28	
Naphthalene	ug/kg	<3.0	344	344	217	233	63	67	43-130	7	22	
Phenanthrene	ug/kg	<3.8	344	344	250	267	73	77	47-130	6	20	
Pyrene	ug/kg	<3.2	344	344	238	257	69	74	42-130	8	25	
2-Fluorobiphenyl (S)	%.						68	71	38-130			
Terphenyl-d14 (S)	%.						70	73	36-130			

QUALITY CONTROL DATA

Project: BREARLY
Pace Project No.: 4050049

QC Batch: OEXT/12377 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4050049006, 4050049007, 4050049008, 4050049009

METHOD BLANK: 495135 Matrix: Solid
Associated Lab Samples: 4050049006, 4050049007, 4050049008, 4050049009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.5	16.7	08/26/11 15:47	
2-Methylnaphthalene	ug/kg	<2.5	16.7	08/26/11 15:47	
Acenaphthene	ug/kg	<2.3	16.7	08/26/11 15:47	
Acenaphthylene	ug/kg	<2.7	16.7	08/26/11 15:47	
Anthracene	ug/kg	<3.9	16.7	08/26/11 15:47	
Benzo(a)anthracene	ug/kg	<2.4	16.7	08/26/11 15:47	
Benzo(a)pyrene	ug/kg	<2.7	16.7	08/26/11 15:47	
Benzo(b)fluoranthene	ug/kg	<2.9	16.7	08/26/11 15:47	
Benzo(g,h,i)perylene	ug/kg	<2.2	16.7	08/26/11 15:47	
Benzo(k)fluoranthene	ug/kg	<3.1	16.7	08/26/11 15:47	
Chrysene	ug/kg	<3.0	16.7	08/26/11 15:47	
Dibenz(a,h)anthracene	ug/kg	<4.5	16.7	08/26/11 15:47	
Fluoranthene	ug/kg	<8.3	16.7	08/26/11 15:47	
Fluorene	ug/kg	<4.1	16.7	08/26/11 15:47	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.4	16.7	08/26/11 15:47	
Naphthalene	ug/kg	<2.9	16.7	08/26/11 15:47	
Phenanthrene	ug/kg	<3.7	16.7	08/26/11 15:47	
Pyrene	ug/kg	<3.1	16.7	08/26/11 15:47	
2-Fluorobiphenyl (S)	%	68	38-130	08/26/11 15:47	
Terphenyl-d14 (S)	%	74	36-130	08/26/11 15:47	

LABORATORY CONTROL SAMPLE: 495136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	216	65	56-130	
2-Methylnaphthalene	ug/kg	333	214	64	57-130	
Acenaphthene	ug/kg	333	212	63	62-130	
Acenaphthylene	ug/kg	333	217	65	62-130	
Anthracene	ug/kg	333	251	75	62-130	
Benzo(a)anthracene	ug/kg	333	237	71	60-130	
Benzo(a)pyrene	ug/kg	333	252	76	62-130	
Benzo(b)fluoranthene	ug/kg	333	234	70	61-130	
Benzo(g,h,i)perylene	ug/kg	333	264	79	52-130	
Benzo(k)fluoranthene	ug/kg	333	267	80	61-130	
Chrysene	ug/kg	333	237	71	54-130	
Dibenz(a,h)anthracene	ug/kg	333	255	76	55-130	
Fluoranthene	ug/kg	333	246	74	65-130	
Fluorene	ug/kg	333	224	67	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	258	77	55-130	
Naphthalene	ug/kg	333	190	57	59-130 L0	
Phenanthrene	ug/kg	333	238	71	62-130	

Date: 09/02/2011 03:10 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BREARLY
Pace Project No.: 4050049

LABORATORY CONTROL SAMPLE: 495136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	236	71	58-130	
2-Fluorobiphenyl (S)	%.			64	38-130	
Terphenyl-d14 (S)	%.			75	36-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 495137 495138

Parameter	Units	4050051005		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
1-Methylnaphthalene	ug/kg	34.4	380	380	265	273	61	63	44-130	3	22	
2-Methylnaphthalene	ug/kg	85.6	380	380	282	302	52	57	43-130	7	20	
Acenaphthene	ug/kg	<2.7	380	380	244	236	64	62	47-130	3	20	
Acenaphthylene	ug/kg	6.7J	380	380	241	243	62	62	51-130	.6	20	
Anthracene	ug/kg	16.7J	380	380	273	270	67	67	45-130	1	22	
Benzo(a)anthracene	ug/kg	3.9J	380	380	249	253	64	65	44-130	2	27	
Benzo(a)pyrene	ug/kg	<3.1	380	380	259	256	67	67	49-130	1	27	
Benzo(b)fluoranthene	ug/kg	17.7J	380	380	251	282	61	69	41-130	12	32	
Benzo(g,h,i)perylene	ug/kg	24.0	380	380	279	283	67	68	39-130	1	28	
Benzo(k)fluoranthene	ug/kg	11.1J	380	380	274	265	69	67	41-130	3	26	
Chrysene	ug/kg	15.1J	380	380	251	273	62	68	45-130	8	28	
Dibenz(a,h)anthracene	ug/kg	<5.2	380	380	263	263	68	68	39-130	.3	25	
Fluoranthene	ug/kg	11.4J	380	380	254	261	64	65	47-130	3	25	
Fluorene	ug/kg	<4.7	380	380	248	246	65	64	46-130	.9	20	
Indeno(1,2,3-cd)pyrene	ug/kg	16.0J	380	380	270	273	67	68	39-130	1	28	
Naphthalene	ug/kg	63.5	380	380	256	267	51	53	43-130	4	22	
Phenanthrene	ug/kg	105	380	380	270	294	43	50	47-130	8	20	M1
Pyrene	ug/kg	9.6J	380	380	257	265	65	67	42-130	3	25	
2-Fluorobiphenyl (S)	%.						63	63	38-130			
Terphenyl-d14 (S)	%.						66	64	36-130			



QUALITY CONTROL DATA

Project: BREARLY
 Pace Project No.: 4050049

QC Batch: PMST/5992 Analysis Method: ASTM D2974-87
 QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
 Associated Lab Samples: 4050049001, 4050049002, 4050049003, 4050049004, 4050049005, 4050049006, 4050049007, 4050049008,
 4050049009

SAMPLE DUPLICATE: 497908

Parameter	Units	4050277001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.0	1	10	

QUALIFIERS

Project: BREARLY
Pace Project No.: 4050049

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

1q	Methanol leaked from the original preserved vial. The sample was subsampled from a packed tight jar.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
P4	Sample field preservation does not meet EPA or method recommendations for this analysis.
W	Non-detect results are reported on a wet weight basis.

(Please Print Clearly)

UPPER MIDWEST REGION

Page 1 of

MN: 612-607-1700 WI: 920-469-2436



JK

4050049

Company Name: Seymour Env.
 Branch/Location:
 Project Contact: Robyn Seymour
 Phone: 608 838 9120
 Project Number:
 Project Name: Brearily
 Project State: Wisconsin
 Sampled By (Print): Robyn Seymour
 Sampled By (Sign): Robyn Seymour
 PO #:
 Regulatory Program:

CHAIN OF CUSTODY

*Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Biota DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 Sl = Sludge WP = Wipe

Y IN	Filter Letter	Analysis Requested	Filtered? (YES/NO)	Preservation (CODE)*
		PVOC		
		PAH		

Quote #: 4050049
 Mail To Contact: Robyn Seymour
 Mail To Company: Seymour Env.
 Mail To Address: 2531 Dyreson McFarland
 Invoice To Contact: Robyn
 Invoice To Company: Seymour
 Invoice To Address:
 Invoice To Phone:

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	Filtered?	Preservation	Y IN	Filter Letter
		DATE	TIME						
01	Pit 1 North	8/17	11:20		X	X			
02	Pit 1 North		1250		X	X			
03	Pit 1 South		1300		X	X			
04	Pit 1 East		1310		X	X			
05	Pit 1 West		1315		X	X			
06	Pit 3 Base		1430		X	X			
07	Pit 3 North	8/18	0100		X	X			
08	Pit 3 South		0705		X	X			
09	Pit 3 East		0710		X	X			
10	Pit 3 West		0715		X	X			

CLIENT COMMENTS
 LAB COMMENTS (Lab Use Only)
 Profile #

CG
 1-40z AG 1-40ml F
 8/25/06

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)
 Date Needed:

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By: Robyn Seymour Date/Time: 8/24
 Relinquished By: Dunham Date/Time: 8/25/11 10:22
 Relinquished By:
 Relinquished By:

Received By: Date/Time:
 Received By: [Signature] Date/Time: 8/25/11 10:22
 Received By:
 Received By:

PACE Project No. 4050049
 Receipt Temp = 901 °C
 Sample Receipt pH OK / Adjusted NA
 Cooler Custody Seal Present / Not Present Intact / Not Intact



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

September 02, 2011

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: BREARNY
Pace Project No.: 4050051

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on August 25, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: BREARNY
Pace Project No.: 4050051

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BREARNY
Pace Project No.: 4050051

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4050051001	PIT 2, #1	Solid	08/18/11 00:00	08/25/11 10:22
4050051002	PIT 2, #2	Solid	08/18/11 00:00	08/25/11 10:22
4050051003	PIT 2, #5	Solid	08/18/11 00:00	08/25/11 10:22
4050051004	PIT 2, #6	Solid	08/18/11 00:00	08/25/11 10:22
4050051005	PIT 2, #7	Solid	08/18/11 00:00	08/25/11 10:22
4050051006	PIT 2, #8	Solid	08/18/11 00:00	08/25/11 10:22
4050051007	PIT 2, #9	Solid	08/18/11 00:00	08/25/11 10:22

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: BREARNY
Pace Project No.: 4050051

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4050051001	PIT 2, #1	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050051002	PIT 2, #2	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050051003	PIT 2, #5	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050051004	PIT 2, #6	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050051005	PIT 2, #7	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050051006	PIT 2, #8	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1
4050051007	PIT 2, #9	WI MOD GRO	PMS	9
		EPA 8270 by SIM	ARO	20
		ASTM D2974-87	LCM	1

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: BREARNY

Pace Project No.: 4050051

Sample: PIT 2, #1 Lab ID: 4050051001 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	10700	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	71-43-2	
Ethylbenzene	56000	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	100-41-4	
Methyl-tert-butyl ether	1790J	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	1634-04-4	
Toluene	3930	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	108-88-3	
1,2,4-Trimethylbenzene	103000	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	95-63-6	
1,3,5-Trimethylbenzene	7700	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	108-67-8	
m&p-Xylene	63800	ug/kg	5660	2360	40	08/26/11 12:00	08/26/11 14:01	179601-23-1	
o-Xylene	4940	ug/kg	2830	1180	40	08/26/11 12:00	08/26/11 14:01	95-47-6	
a,a,a-Trifluorotoluene (S)	136	%.	80-120		40	08/26/11 12:00	08/26/11 14:01	98-08-8	D3,S7
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	909	ug/kg	393	55.2	20	08/26/11 12:00	08/29/11 11:57	83-32-9	
Acenaphthylene	249J	ug/kg	393	62.6	20	08/26/11 12:00	08/29/11 11:57	208-96-8	
Anthracene	339J	ug/kg	393	91.4	20	08/26/11 12:00	08/29/11 11:57	120-12-7	
Benzo(a)anthracene	<55.8	ug/kg	393	55.8	20	08/26/11 12:00	08/29/11 11:57	56-55-3	
Benzo(a)pyrene	<64.3	ug/kg	393	64.3	20	08/26/11 12:00	08/29/11 11:57	50-32-8	
Benzo(b)fluoranthene	<67.9	ug/kg	393	67.9	20	08/26/11 12:00	08/29/11 11:57	205-99-2	
Benzo(g,h,i)perylene	<51.9	ug/kg	393	51.9	20	08/26/11 12:00	08/29/11 11:57	191-24-2	
Benzo(k)fluoranthene	<72.9	ug/kg	393	72.9	20	08/26/11 12:00	08/29/11 11:57	207-08-9	
Chrysene	<71.2	ug/kg	393	71.2	20	08/26/11 12:00	08/29/11 11:57	218-01-9	
Dibenz(a,h)anthracene	<107	ug/kg	393	107	20	08/26/11 12:00	08/29/11 11:57	53-70-3	
Fluoranthene	<196	ug/kg	393	196	20	08/26/11 12:00	08/29/11 11:57	206-44-0	
Fluorene	971	ug/kg	393	97.7	20	08/26/11 12:00	08/29/11 11:57	86-73-7	
Indeno(1,2,3-cd)pyrene	<55.8	ug/kg	393	55.8	20	08/26/11 12:00	08/29/11 11:57	193-39-5	
1-Methylnaphthalene	11100	ug/kg	393	60.0	20	08/26/11 12:00	08/29/11 11:57	90-12-0	
2-Methylnaphthalene	17200	ug/kg	393	60.0	20	08/26/11 12:00	08/29/11 11:57	91-57-6	
Naphthalene	8280	ug/kg	393	68.7	20	08/26/11 12:00	08/29/11 11:57	91-20-3	L2
Phenanthrene	2760	ug/kg	393	86.4	20	08/26/11 12:00	08/29/11 11:57	85-01-8	
Pyrene	142J	ug/kg	393	71.9	20	08/26/11 12:00	08/29/11 11:57	129-00-0	
2-Fluorobiphenyl (S)	69	%.	38-130		20	08/26/11 12:00	08/29/11 11:57	321-60-8	
Terphenyl-d14 (S)	58	%.	36-130		20	08/26/11 12:00	08/29/11 11:57	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	15.1	%	0.10	0.10	1		09/02/11 07:54		

Sample: PIT 2, #2 Lab ID: 4050051002 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<625	ug/kg	1500	625	25	08/26/11 12:00	08/26/11 14:27	71-43-2	W
Ethylbenzene	36700	ug/kg	1900	792	25	08/26/11 12:00	08/26/11 14:27	100-41-4	

Date: 09/02/2011 03:10 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BREARNY
Pace Project No.: 4050051

Sample: PIT 2, #2 Lab ID: 4050051002 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Methyl-tert-butyl ether	<625	ug/kg	1500	625	25	08/26/11 12:00	08/26/11 14:27	1634-04-4	W
Toluene	846J	ug/kg	1900	792	25	08/26/11 12:00	08/26/11 14:27	108-88-3	
1,2,4-Trimethylbenzene	79500	ug/kg	1900	792	25	08/26/11 12:00	08/26/11 14:27	95-63-6	
1,3,5-Trimethylbenzene	<625	ug/kg	1500	625	25	08/26/11 12:00	08/26/11 14:27	108-67-8	W
m&p-Xylene	38000	ug/kg	3800	1580	25	08/26/11 12:00	08/26/11 14:27	179601-23-1	
o-Xylene	3300	ug/kg	1900	792	25	08/26/11 12:00	08/26/11 14:27	95-47-6	
a,a,a-Trifluorotoluene (S)	137 %		80-120		25	08/26/11 12:00	08/26/11 14:27	98-08-8	D3,S7
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	301	ug/kg	264	37.1	12.5	08/26/11 12:00	08/29/11 12:15	83-32-9	
Acenaphthylene	101J	ug/kg	264	42.0	12.5	08/26/11 12:00	08/29/11 12:15	208-96-8	
Anthracene	118J	ug/kg	264	61.4	12.5	08/26/11 12:00	08/29/11 12:15	120-12-7	
Benzo(a)anthracene	<37.5	ug/kg	264	37.5	12.5	08/26/11 12:00	08/29/11 12:15	56-55-3	
Benzo(a)pyrene	<43.2	ug/kg	264	43.2	12.5	08/26/11 12:00	08/29/11 12:15	50-32-8	
Benzo(b)fluoranthene	<45.6	ug/kg	264	45.6	12.5	08/26/11 12:00	08/29/11 12:15	205-99-2	
Benzo(g,h,i)perylene	<34.8	ug/kg	264	34.8	12.5	08/26/11 12:00	08/29/11 12:15	191-24-2	
Benzo(k)fluoranthene	<49.0	ug/kg	264	49.0	12.5	08/26/11 12:00	08/29/11 12:15	207-08-9	
Chrysene	<47.9	ug/kg	264	47.9	12.5	08/26/11 12:00	08/29/11 12:15	218-01-9	
Dibenz(a,h)anthracene	<71.8	ug/kg	264	71.8	12.5	08/26/11 12:00	08/29/11 12:15	53-70-3	
Fluoranthene	<132	ug/kg	264	132	12.5	08/26/11 12:00	08/29/11 12:15	206-44-0	
Fluorene	375	ug/kg	264	65.6	12.5	08/26/11 12:00	08/29/11 12:15	86-73-7	
Indeno(1,2,3-cd)pyrene	<37.5	ug/kg	264	37.5	12.5	08/26/11 12:00	08/29/11 12:15	193-39-5	
1-Methylnaphthalene	4330	ug/kg	264	40.3	12.5	08/26/11 12:00	08/29/11 12:15	90-12-0	
2-Methylnaphthalene	5820	ug/kg	264	40.3	12.5	08/26/11 12:00	08/29/11 12:15	91-57-6	
Naphthalene	2790	ug/kg	264	46.2	12.5	08/26/11 12:00	08/29/11 12:15	91-20-3	L2
Phenanthrene	1050	ug/kg	264	58.0	12.5	08/26/11 12:00	08/29/11 12:15	85-01-8	
Pyrene	<48.3	ug/kg	264	48.3	12.5	08/26/11 12:00	08/29/11 12:15	129-00-0	
2-Fluorobiphenyl (S)	52 %		38-130		12.5	08/26/11 12:00	08/29/11 12:15	321-60-8	
Terphenyl-d14 (S)	46 %		36-130		12.5	08/26/11 12:00	08/29/11 12:15	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	21.0 %		0.10	0.10	1		09/02/11 07:54		

Sample: PIT 2, #5 Lab ID: 4050051003 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	717	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	71-43-2	
Ethylbenzene	4280	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	100-41-4	
Methyl-tert-butyl ether	163J	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	1634-04-4	
Toluene	322	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	108-88-3	

ANALYTICAL RESULTS

Project: BREARNY
Pace Project No.: 4050051

Sample: PIT 2, #5 Lab ID: 4050051003 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
1,2,4-Trimethylbenzene	9390	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	95-63-6	
1,3,5-Trimethylbenzene	1200	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	108-67-8	
m&p-Xylene	5600	ug/kg	563	235	4	08/26/11 12:00	08/26/11 14:52	179601-23-1	
o-Xylene	480	ug/kg	282	117	4	08/26/11 12:00	08/26/11 14:52	95-47-6	
a,a,a-Trifluorotoluene (S)	135	%	80-120		4	08/26/11 12:00	08/26/11 14:52	98-08-8	D3,S7
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	122J	ug/kg	122	17.2	6.25	08/26/11 12:00	08/29/11 12:32	83-32-9	
Acenaphthylene	35.0J	ug/kg	122	19.5	6.25	08/26/11 12:00	08/29/11 12:32	208-96-8	
Anthracene	50.8J	ug/kg	122	28.4	6.25	08/26/11 12:00	08/29/11 12:32	120-12-7	
Benzo(a)anthracene	<17.4	ug/kg	122	17.4	6.25	08/26/11 12:00	08/29/11 12:32	56-55-3	
Benzo(a)pyrene	<20.0	ug/kg	122	20.0	6.25	08/26/11 12:00	08/29/11 12:32	50-32-8	
Benzo(b)fluoranthene	<21.1	ug/kg	122	21.1	6.25	08/26/11 12:00	08/29/11 12:32	205-99-2	
Benzo(g,h,i)perylene	<16.1	ug/kg	122	16.1	6.25	08/26/11 12:00	08/29/11 12:32	191-24-2	
Benzo(k)fluoranthene	<22.7	ug/kg	122	22.7	6.25	08/26/11 12:00	08/29/11 12:32	207-08-9	
Chrysene	<22.2	ug/kg	122	22.2	6.25	08/26/11 12:00	08/29/11 12:32	218-01-9	
Dibenz(a,h)anthracene	<33.3	ug/kg	122	33.3	6.25	08/26/11 12:00	08/29/11 12:32	53-70-3	
Fluoranthene	<61.1	ug/kg	122	61.1	6.25	08/26/11 12:00	08/29/11 12:32	206-44-0	
Fluorene	150	ug/kg	122	30.4	6.25	08/26/11 12:00	08/29/11 12:32	86-73-7	
Indeno(1,2,3-cd)pyrene	<17.4	ug/kg	122	17.4	6.25	08/26/11 12:00	08/29/11 12:32	193-39-5	
1-Methylnaphthalene	1550	ug/kg	122	18.7	6.25	08/26/11 12:00	08/29/11 12:32	90-12-0	
2-Methylnaphthalene	2160	ug/kg	122	18.7	6.25	08/26/11 12:00	08/29/11 12:32	91-57-6	
Naphthalene	1000	ug/kg	122	21.4	6.25	08/26/11 12:00	08/29/11 12:32	91-20-3	L2
Phenanthrene	456	ug/kg	122	26.9	6.25	08/26/11 12:00	08/29/11 12:32	85-01-8	
Pyrene	22.8J	ug/kg	122	22.4	6.25	08/26/11 12:00	08/29/11 12:32	129-00-0	
2-Fluorobiphenyl (S)	60	%	38-130		6.25	08/26/11 12:00	08/29/11 12:32	321-60-8	
Terphenyl-d14 (S)	58	%	36-130		6.25	08/26/11 12:00	08/29/11 12:32	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	14.8	%	0.10	0.10	1		09/02/11 07:54		

Sample: PIT 2, #6 Lab ID: 4050051004 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	307J	ug/kg	358	149	5	08/26/11 12:00	08/26/11 15:18	71-43-2	
Ethylbenzene	5620	ug/kg	358	149	5	08/26/11 12:00	08/26/11 15:18	100-41-4	
Methyl-tert-butyl ether	186J	ug/kg	358	149	5	08/26/11 12:00	08/26/11 15:18	1634-04-4	
Toluene	208J	ug/kg	358	149	5	08/26/11 12:00	08/26/11 15:18	108-88-3	
1,2,4-Trimethylbenzene	16200	ug/kg	358	149	5	08/26/11 12:00	08/26/11 15:18	95-63-6	
1,3,5-Trimethylbenzene	<125	ug/kg	300	125	5	08/26/11 12:00	08/26/11 15:18	108-67-8	W

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ANALYTICAL RESULTS

Project: BREARNY
Pace Project No.: 4050051

Sample: PIT 2, #6 Lab ID: 4050051004 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
m&p-Xylene	<250	ug/kg	600	250	5	08/26/11 12:00	08/26/11 15:18	179601-23-1	W
o-Xylene	853	ug/kg	358	149	5	08/26/11 12:00	08/26/11 15:18	95-47-6	
a,a,a-Trifluorotoluene (S)	144	%	80-120		5	08/26/11 12:00	08/26/11 15:18	98-08-8	D3,S7
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	65.2J	ug/kg	66.3	9.3	3.33	08/26/11 12:00	08/29/11 12:49	83-32-9	
Acenaphthylene	18.9J	ug/kg	66.3	10.6	3.33	08/26/11 12:00	08/29/11 12:49	208-96-8	
Anthracene	24.8J	ug/kg	66.3	15.4	3.33	08/26/11 12:00	08/29/11 12:49	120-12-7	
Benzo(a)anthracene	<9.4	ug/kg	66.3	9.4	3.33	08/26/11 12:00	08/29/11 12:49	56-55-3	
Benzo(a)pyrene	<10.8	ug/kg	66.3	10.8	3.33	08/26/11 12:00	08/29/11 12:49	50-32-8	
Benzo(b)fluoranthene	<11.5	ug/kg	66.3	11.5	3.33	08/26/11 12:00	08/29/11 12:49	205-99-2	
Benzo(g,h,i)perylene	<8.8	ug/kg	66.3	8.8	3.33	08/26/11 12:00	08/29/11 12:49	191-24-2	
Benzo(k)fluoranthene	<12.3	ug/kg	66.3	12.3	3.33	08/26/11 12:00	08/29/11 12:49	207-08-9	
Chrysene	<12.0	ug/kg	66.3	12.0	3.33	08/26/11 12:00	08/29/11 12:49	218-01-9	
Dibenz(a,h)anthracene	<18.0	ug/kg	66.3	18.0	3.33	08/26/11 12:00	08/29/11 12:49	53-70-3	
Fluoranthene	<33.1	ug/kg	66.3	33.1	3.33	08/26/11 12:00	08/29/11 12:49	206-44-0	
Fluorene	82.5	ug/kg	66.3	16.5	3.33	08/26/11 12:00	08/29/11 12:49	86-73-7	
Indeno(1,2,3-cd)pyrene	<9.4	ug/kg	66.3	9.4	3.33	08/26/11 12:00	08/29/11 12:49	193-39-5	
1-Methylnaphthalene	869	ug/kg	66.3	10.1	3.33	08/26/11 12:00	08/29/11 12:49	90-12-0	
2-Methylnaphthalene	1150	ug/kg	66.3	10.1	3.33	08/26/11 12:00	08/29/11 12:49	91-57-6	
Naphthalene	553	ug/kg	66.3	11.6	3.33	08/26/11 12:00	08/29/11 12:49	91-20-3	L2
Phenanthrene	270	ug/kg	66.3	14.6	3.33	08/26/11 12:00	08/29/11 12:49	85-01-8	
Pyrene	12.8J	ug/kg	66.3	12.1	3.33	08/26/11 12:00	08/29/11 12:49	129-00-0	
2-Fluorobiphenyl (S)	63	%	38-130		3.33	08/26/11 12:00	08/29/11 12:49	321-60-8	
Terphenyl-d14 (S)	62	%	36-130		3.33	08/26/11 12:00	08/29/11 12:49	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	16.3	%	0.10	0.10	1		09/02/11 07:54		

Sample: PIT 2, #7 Lab ID: 4050051005 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/26/11 12:00	08/26/11 16:35	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 16:35	95-47-6	W

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ANALYTICAL RESULTS

Project: BREARNY
Pace Project No.: 4050051

Sample: PIT 2, #7 Lab ID: 4050051005 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
a,a,a-Trifluorotoluene (S)	102 %.		80-120		1	08/26/11 12:00	08/26/11 16:35	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	<2.7	ug/kg	19.0	2.7	1	08/26/11 12:00	08/26/11 16:21	83-32-9	
Acenaphthylene	6.7J	ug/kg	19.0	3.0	1	08/26/11 12:00	08/26/11 16:21	208-96-8	
Anthracene	16.7J	ug/kg	19.0	4.4	1	08/26/11 12:00	08/26/11 16:21	120-12-7	
Benzo(a)anthracene	3.9J	ug/kg	19.0	2.7	1	08/26/11 12:00	08/26/11 16:21	56-55-3	
Benzo(a)pyrene	<3.1	ug/kg	19.0	3.1	1	08/26/11 12:00	08/26/11 16:21	50-32-8	
Benzo(b)fluoranthene	17.7J	ug/kg	19.0	3.3	1	08/26/11 12:00	08/26/11 16:21	205-99-2	
Benzo(g,h,i)perylene	24.0	ug/kg	19.0	2.5	1	08/26/11 12:00	08/26/11 16:21	191-24-2	
Benzo(k)fluoranthene	11.1J	ug/kg	19.0	3.5	1	08/26/11 12:00	08/26/11 16:21	207-08-9	
Chrysene	15.1J	ug/kg	19.0	3.5	1	08/26/11 12:00	08/26/11 16:21	218-01-9	
Dibenz(a,h)anthracene	<5.2	ug/kg	19.0	5.2	1	08/26/11 12:00	08/26/11 16:21	53-70-3	
Fluoranthene	11.4J	ug/kg	19.0	9.5	1	08/26/11 12:00	08/26/11 16:21	206-44-0	
Fluorene	<4.7	ug/kg	19.0	4.7	1	08/26/11 12:00	08/26/11 16:21	86-73-7	
Indeno(1,2,3-cd)pyrene	16.0J	ug/kg	19.0	2.7	1	08/26/11 12:00	08/26/11 16:21	193-39-5	
1-Methylnaphthalene	34.4	ug/kg	19.0	2.9	1	08/26/11 12:00	08/26/11 16:21	90-12-0	
2-Methylnaphthalene	85.6	ug/kg	19.0	2.9	1	08/26/11 12:00	08/26/11 16:21	91-57-6	
Naphthalene	63.5	ug/kg	19.0	3.3	1	08/26/11 12:00	08/26/11 16:21	91-20-3	L2
Phenanthrene	105	ug/kg	19.0	4.2	1	08/26/11 12:00	08/26/11 16:21	85-01-8	M1
Pyrene	9.6J	ug/kg	19.0	3.5	1	08/26/11 12:00	08/26/11 16:21	129-00-0	
2-Fluorobiphenyl (S)	60 %.		38-130		1	08/26/11 12:00	08/26/11 16:21	321-60-8	
Terphenyl-d14 (S)	63 %.		36-130		1	08/26/11 12:00	08/26/11 16:21	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	12.5 %		0.10	0.10	1		09/02/11 07:55		

Sample: PIT 2, #8 Lab ID: 4050051006 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	100-41-4	W
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	08/26/11 12:00	08/26/11 17:00	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	08/26/11 12:00	08/26/11 17:00	95-47-6	W
a,a,a-Trifluorotoluene (S)	102 %.		80-120		1	08/26/11 12:00	08/26/11 17:00	98-08-8	

ANALYTICAL RESULTS

Project: BREARNY
Pace Project No.: 4050051

Sample: PIT 2, #8 Lab ID: 4050051006 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	21.7	ug/kg	19.3	2.7	1	08/26/11 12:00	08/26/11 19:29	83-32-9	
Acenaphthylene	<3.1	ug/kg	19.3	3.1	1	08/26/11 12:00	08/26/11 19:29	208-96-8	
Anthracene	5.0J	ug/kg	19.3	4.5	1	08/26/11 12:00	08/26/11 19:29	120-12-7	
Benzo(a)anthracene	<2.7	ug/kg	19.3	2.7	1	08/26/11 12:00	08/26/11 19:29	56-55-3	
Benzo(a)pyrene	<3.2	ug/kg	19.3	3.2	1	08/26/11 12:00	08/26/11 19:29	50-32-8	
Benzo(b)fluoranthene	<3.3	ug/kg	19.3	3.3	1	08/26/11 12:00	08/26/11 19:29	205-99-2	
Benzo(g,h,i)perylene	<2.6	ug/kg	19.3	2.6	1	08/26/11 12:00	08/26/11 19:29	191-24-2	
Benzo(k)fluoranthene	<3.6	ug/kg	19.3	3.6	1	08/26/11 12:00	08/26/11 19:29	207-08-9	
Chrysene	<3.5	ug/kg	19.3	3.5	1	08/26/11 12:00	08/26/11 19:29	218-01-9	
Dibenz(a,h)anthracene	<5.3	ug/kg	19.3	5.3	1	08/26/11 12:00	08/26/11 19:29	53-70-3	
Fluoranthene	<9.7	ug/kg	19.3	9.7	1	08/26/11 12:00	08/26/11 19:29	206-44-0	
Fluorene	27.0	ug/kg	19.3	4.8	1	08/26/11 12:00	08/26/11 19:29	86-73-7	
Indeno(1,2,3-cd)pyrene	<2.7	ug/kg	19.3	2.7	1	08/26/11 12:00	08/26/11 19:29	193-39-5	
1-Methylnaphthalene	79.2	ug/kg	19.3	3.0	1	08/26/11 12:00	08/26/11 19:29	90-12-0	
2-Methylnaphthalene	3.5J	ug/kg	19.3	3.0	1	08/26/11 12:00	08/26/11 19:29	91-57-6	
Naphthalene	5.6J	ug/kg	19.3	3.4	1	08/26/11 12:00	08/26/11 19:29	91-20-3	L2
Phenanthrene	52.9	ug/kg	19.3	4.2	1	08/26/11 12:00	08/26/11 19:29	85-01-8	
Pyrene	<3.5	ug/kg	19.3	3.5	1	08/26/11 12:00	08/26/11 19:29	129-00-0	
2-Fluorobiphenyl (S)	67 %		38-130		1	08/26/11 12:00	08/26/11 19:29	321-60-8	
Terphenyl-d14 (S)	76 %		36-130		1	08/26/11 12:00	08/26/11 19:29	1718-51-0	
Percent Moisture Analytical Method: ASTM D2974-87									
Percent Moisture	13.8	%	0.10	0.10	1		09/02/11 07:55		

Sample: PIT 2, #9 Lab ID: 4050051007 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<625	ug/kg	1500	625	25	08/26/11 12:00	08/26/11 10:11	71-43-2	W
Ethylbenzene	4750	ug/kg	1700	706	25	08/26/11 12:00	08/26/11 10:11	100-41-4	
Methyl-tert-butyl ether	<625	ug/kg	1500	625	25	08/26/11 12:00	08/26/11 10:11	1634-04-4	W
Toluene	<625	ug/kg	1500	625	25	08/26/11 12:00	08/26/11 10:11	108-88-3	W
1,2,4-Trimethylbenzene	55700	ug/kg	1700	706	25	08/26/11 12:00	08/26/11 10:11	95-63-6	
1,3,5-Trimethylbenzene	22900	ug/kg	1700	706	25	08/26/11 12:00	08/26/11 10:11	108-67-8	
m&p-Xylene	9160	ug/kg	3390	1410	25	08/26/11 12:00	08/26/11 10:11	179601-23-1	
o-Xylene	1460J	ug/kg	1700	706	25	08/26/11 12:00	08/26/11 10:11	95-47-6	
a,a,a-Trifluorotoluene (S)	108	%	80-120		25	08/26/11 12:00	08/26/11 10:11	98-08-8	D3
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Acenaphthene	1580	ug/kg	627	88.2	33.3	08/26/11 12:00	08/30/11 14:47	83-32-9	
Acenaphthylene	380J	ug/kg	627	99.9	33.3	08/26/11 12:00	08/30/11 14:47	208-96-8	

Date: 09/02/2011 03:10 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BREARNY
Pace Project No.: 4050051

Sample: PIT 2, #9 Lab ID: 4050051007 Collected: 08/18/11 00:00 Received: 08/25/11 10:22 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Anthracene	698	ug/kg	627	146	33.3	08/26/11 12:00	08/30/11 14:47	120-12-7	
Benzo(a)anthracene	<89.1	ug/kg	627	89.1	33.3	08/26/11 12:00	08/30/11 14:47	56-55-3	
Benzo(a)pyrene	<103	ug/kg	627	103	33.3	08/26/11 12:00	08/30/11 14:47	50-32-8	
Benzo(b)fluoranthene	<108	ug/kg	627	108	33.3	08/26/11 12:00	08/30/11 14:47	205-99-2	
Benzo(g,h,i)perylene	<82.8	ug/kg	627	82.8	33.3	08/26/11 12:00	08/30/11 14:47	191-24-2	
Benzo(k)fluoranthene	<116	ug/kg	627	116	33.3	08/26/11 12:00	08/30/11 14:47	207-08-9	
Chrysene	<114	ug/kg	627	114	33.3	08/26/11 12:00	08/30/11 14:47	218-01-9	
Dibenz(a,h)anthracene	<171	ug/kg	627	171	33.3	08/26/11 12:00	08/30/11 14:47	53-70-3	
Fluoranthene	<314	ug/kg	627	314	33.3	08/26/11 12:00	08/30/11 14:47	206-44-0	
Fluorene	1820	ug/kg	627	156	33.3	08/26/11 12:00	08/30/11 14:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<89.1	ug/kg	627	89.1	33.3	08/26/11 12:00	08/30/11 14:47	193-39-5	
1-Methylnaphthalene	14200	ug/kg	627	95.7	33.3	08/26/11 12:00	08/30/11 14:47	90-12-0	
2-Methylnaphthalene	<95.7	ug/kg	627	95.7	33.3	08/26/11 12:00	08/30/11 14:47	91-57-6	
Naphthalene	5120	ug/kg	627	110	33.3	08/26/11 12:00	08/30/11 14:47	91-20-3	L2
Phenanthrene	5700	ug/kg	627	138	33.3	08/26/11 12:00	08/30/11 14:47	85-01-8	
Pyrene	323J	ug/kg	627	115	33.3	08/26/11 12:00	08/30/11 14:47	129-00-0	
2-Fluorobiphenyl (S)	69 %		38-130		33.3	08/26/11 12:00	08/30/11 14:47	321-60-8	
Terphenyl-d14 (S)	55 %		36-130		33.3	08/26/11 12:00	08/30/11 14:47	1718-51-0	
Percent Moisture									
Analytical Method: ASTM D2974-87									
Percent Moisture	11.5 %		0.10	0.10	1		09/02/11 07:55		

QUALITY CONTROL DATA

Project: BREARNY
Pace Project No.: 4050051

QC Batch: GCV/7121 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4050051001, 4050051002, 4050051003, 4050051004, 4050051005, 4050051006, 4050051007

METHOD BLANK: 495113 Matrix: Solid
Associated Lab Samples: 4050051001, 4050051002, 4050051003, 4050051004, 4050051005, 4050051006, 4050051007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	08/26/11 08:52	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	08/26/11 08:52	
Benzene	ug/kg	<25.0	60.0	08/26/11 08:52	
Ethylbenzene	ug/kg	<25.0	60.0	08/26/11 08:52	
m&p-Xylene	ug/kg	<50.0	120	08/26/11 08:52	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	08/26/11 08:52	
o-Xylene	ug/kg	<25.0	60.0	08/26/11 08:52	
Toluene	ug/kg	<25.0	60.0	08/26/11 08:52	
a,a,a-Trifluorotoluene (S)	%	103	80-120	08/26/11 08:52	

Parameter	Units	LABORATORY CONTROL SAMPLE & LCSD: 495114 495115								Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	
1,2,4-Trimethylbenzene	ug/kg	1000	1160	1200	116	120	80-120	3	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1130	1160	113	116	80-120	3	20	
Benzene	ug/kg	1000	1170	1190	117	119	80-120	2	20	
Ethylbenzene	ug/kg	1000	1130	1160	113	116	80-120	2	20	
m&p-Xylene	ug/kg	2000	2280	2340	114	117	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	1130	1160	113	116	80-120	3	20	
o-Xylene	ug/kg	1000	1130	1160	113	116	80-120	2	20	
Toluene	ug/kg	1000	1150	1170	115	117	80-120	2	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

QUALITY CONTROL DATA

Project: BREARNY
Pace Project No.: 4050051

QC Batch: OEXT/12377 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 4050051001, 4050051002, 4050051003, 4050051004, 4050051005, 4050051006, 4050051007

METHOD BLANK: 495135 Matrix: Solid
Associated Lab Samples: 4050051001, 4050051002, 4050051003, 4050051004, 4050051005, 4050051006, 4050051007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<2.5	16.7	08/26/11 15:47	
2-Methylnaphthalene	ug/kg	<2.5	16.7	08/26/11 15:47	
Acenaphthene	ug/kg	<2.3	16.7	08/26/11 15:47	
Acenaphthylene	ug/kg	<2.7	16.7	08/26/11 15:47	
Anthracene	ug/kg	<3.9	16.7	08/26/11 15:47	
Benzo(a)anthracene	ug/kg	<2.4	16.7	08/26/11 15:47	
Benzo(a)pyrene	ug/kg	<2.7	16.7	08/26/11 15:47	
Benzo(b)fluoranthene	ug/kg	<2.9	16.7	08/26/11 15:47	
Benzo(g,h,i)perylene	ug/kg	<2.2	16.7	08/26/11 15:47	
Benzo(k)fluoranthene	ug/kg	<3.1	16.7	08/26/11 15:47	
Chrysene	ug/kg	<3.0	16.7	08/26/11 15:47	
Dibenz(a,h)anthracene	ug/kg	<4.5	16.7	08/26/11 15:47	
Fluoranthene	ug/kg	<8.3	16.7	08/26/11 15:47	
Fluorene	ug/kg	<4.1	16.7	08/26/11 15:47	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.4	16.7	08/26/11 15:47	
Naphthalene	ug/kg	<2.9	16.7	08/26/11 15:47	
Phenanthrene	ug/kg	<3.7	16.7	08/26/11 15:47	
Pyrene	ug/kg	<3.1	16.7	08/26/11 15:47	
2-Fluorobiphenyl (S)	%	68	38-130	08/26/11 15:47	
Terphenyl-d14 (S)	%	74	36-130	08/26/11 15:47	

LABORATORY CONTROL SAMPLE: 495136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	216	65	56-130	
2-Methylnaphthalene	ug/kg	333	214	64	57-130	
Acenaphthene	ug/kg	333	212	63	62-130	
Acenaphthylene	ug/kg	333	217	65	62-130	
Anthracene	ug/kg	333	251	75	62-130	
Benzo(a)anthracene	ug/kg	333	237	71	60-130	
Benzo(a)pyrene	ug/kg	333	252	76	62-130	
Benzo(b)fluoranthene	ug/kg	333	234	70	61-130	
Benzo(g,h,i)perylene	ug/kg	333	264	79	52-130	
Benzo(k)fluoranthene	ug/kg	333	267	80	61-130	
Chrysene	ug/kg	333	237	71	54-130	
Dibenz(a,h)anthracene	ug/kg	333	255	76	55-130	
Fluoranthene	ug/kg	333	246	74	65-130	
Fluorene	ug/kg	333	224	67	58-130	
Indeno(1,2,3-cd)pyrene	ug/kg	333	258	77	55-130	
Naphthalene	ug/kg	333	190	57	59-130 LO	
Phenanthrene	ug/kg	333	238	71	62-130	

Date: 09/02/2011 03:10 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BREARNY
Pace Project No.: 4050051

LABORATORY CONTROL SAMPLE: 495136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Pyrene	ug/kg	333	236	71	58-130	
2-Fluorobiphenyl (S)	%.			64	38-130	
Terphenyl-d14 (S)	%.			75	36-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 495137 495138

Parameter	Units	4050051005		495137		495138		% Rec	% Rec	% Rec Limits	Max		Qual
		Result	MS Spike Conc.	MS Spike Conc.	MS Result	MSD Result	MS % Rec				MSD % Rec	RPD	
1-Methylnaphthalene	ug/kg	34.4	380	380	265	273	61	63	44-130	3	22		
2-Methylnaphthalene	ug/kg	85.6	380	380	282	302	52	57	43-130	7	20		
Acenaphthene	ug/kg	<2.7	380	380	244	236	64	62	47-130	3	20		
Acenaphthylene	ug/kg	6.7J	380	380	241	243	62	62	51-130	.6	20		
Anthracene	ug/kg	16.7J	380	380	273	270	67	67	45-130	1	22		
Benzo(a)anthracene	ug/kg	3.9J	380	380	249	253	64	65	44-130	2	27		
Benzo(a)pyrene	ug/kg	<3.1	380	380	259	256	67	67	49-130	1	27		
Benzo(b)fluoranthene	ug/kg	17.7J	380	380	251	282	61	69	41-130	12	32		
Benzo(g,h,i)perylene	ug/kg	24.0	380	380	279	283	67	68	39-130	1	28		
Benzo(k)fluoranthene	ug/kg	11.1J	380	380	274	265	69	67	41-130	3	26		
Chrysene	ug/kg	15.1J	380	380	251	273	62	68	45-130	8	28		
Dibenz(a,h)anthracene	ug/kg	<5.2	380	380	263	263	68	68	39-130	.3	25		
Fluoranthene	ug/kg	11.4J	380	380	254	261	64	65	47-130	3	25		
Fluorene	ug/kg	<4.7	380	380	248	246	65	64	46-130	.9	20		
Indeno(1,2,3-cd)pyrene	ug/kg	16.0J	380	380	270	273	67	68	39-130	1	28		
Naphthalene	ug/kg	63.5	380	380	256	267	51	53	43-130	4	22		
Phenanthrene	ug/kg	105	380	380	270	294	43	50	47-130	8	20	M1	
Pyrene	ug/kg	9.6J	380	380	257	265	65	67	42-130	3	25		
2-Fluorobiphenyl (S)	%.						63	63	38-130				
Terphenyl-d14 (S)	%.						66	64	36-130				



QUALITY CONTROL DATA

Project: BREARNY
Pace Project No.: 4050051

QC Batch: PMST/5992 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4050051001, 4050051002, 4050051003, 4050051004, 4050051005, 4050051006, 4050051007

SAMPLE DUPLICATE: 497908

Parameter	Units	4050277001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.1	6.0	1	10	

QUALIFIERS

Project: BREARNY
Pace Project No.: 4050051

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

ANALYTE QUALIFIERS

- | | |
|----|---|
| D3 | Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference. |
| L0 | Analyte recovery in the laboratory control sample (LCS) was outside QC limits. |
| L2 | Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low. |
| M1 | Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. |
| S7 | Surrogate recovery outside control limits (not confirmed by re-analysis). |
| W | Non-detect results are reported on a wet weight basis. |



Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

November 22, 2011

Robyn Seymour
Seymour Environmental Services, INC.
2531 Dyreson Road
Mc Farland, WI 53558

RE: Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Dear Robyn Seymour:

Enclosed are the analytical results for sample(s) received by the laboratory on November 15, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Alee Her

alee.her@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

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SAMPLE SUMMARY

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4053624001	MW-10	Water	11/10/11 12:50	11/15/11 10:09
4053624002	MW-7	Water	11/10/11 14:50	11/15/11 10:09
4053624003	MW-2	Water	11/10/11 13:10	11/15/11 10:09
4053624004	MW-15	Water	11/10/11 13:20	11/15/11 10:09
4053624005	MW-13	Water	11/10/11 13:35	11/15/11 10:09
4053624006	MW-12	Water	11/10/11 14:00	11/15/11 10:09
4053624007	MW-14	Water	11/10/11 13:45	11/15/11 10:09
4053624008	MW-11	Water	11/10/11 14:25	11/15/11 10:09
4053624009	MW-3	Water	11/10/11 14:40	11/15/11 10:09
4053624010	MW-17	Water	11/10/11 15:40	11/15/11 10:09
4053624011	MW-16R	Water	11/10/11 15:50	11/15/11 10:09
4053624012	SUMP-1	Water	11/11/11 10:00	11/15/11 10:09
4053624013	SUMP-3	Water	11/11/11 10:10	11/15/11 10:09
4053624014	SUMP-4	Water	11/11/11 10:20	11/15/11 10:09
4053624015	SUMP-2	Water	11/11/11 10:30	11/15/11 10:09

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4053624001	MW-10	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624002	MW-7	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624003	MW-2	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624004	MW-15	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624005	MW-13	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624006	MW-12	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624007	MW-14	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624008	MW-11	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624009	MW-3	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624010	MW-17	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624011	MW-16R	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624012	SUMP-1	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624013	SUMP-3	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624014	SUMP-4	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G
4053624015	SUMP-2	WI MOD GRO	SES	9	PASI-G
		EPA 8270 by SIM	RJN	20	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Method: WI MOD GRO
Description: WIGRO GCV
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: November 22, 2011

General Information:

15 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: GCV/7611

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

QC Batch: GCV/7625

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4053732004

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 536386)
- Toluene

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 10584.00 BYRNS OIL

Pace Project No.: 4053624

Method: EPA 8270 by SIM

Description: 8270 MSSV PAH by SIM

Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.

Date: November 22, 2011

General Information:

15 samples were analyzed for EPA 8270 by SIM. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/13229

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- MW-12 (Lab ID: 4053624006)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)
- MW-14 (Lab ID: 4053624007)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)
- MW-15 (Lab ID: 4053624004)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)
- MW-16R (Lab ID: 4053624011)
 - 2-Fluorobiphenyl (S)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Method: EPA 8270 by SIM
Description: 8270 MSSV PAH by SIM
Client: SEYMOUR ENVIRONMENTAL SERVICES, INC.
Date: November 22, 2011

QC Batch: OEXT/13229

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4053617014

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 535128)
- Naphthalene

QC Batch: MSSV/4081

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL

Pace Project No.: 4053624

Sample: MW-10 **Lab ID: 4053624001** Collected: 11/10/11 12:50 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 13:53	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 13:53	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/16/11 13:53	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 13:53	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/16/11 13:53	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 13:53	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 13:53	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 13:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %.		80-120		1		11/16/11 13:53	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.037J	ug/L	0.099	0.0095	2	11/17/11 12:00	11/17/11 18:31	83-32-9	
Acenaphthylene	0.092J	ug/L	0.099	0.0076	2	11/17/11 12:00	11/17/11 18:31	208-96-8	
Anthracene	0.12	ug/L	0.099	0.012	2	11/17/11 12:00	11/17/11 18:31	120-12-7	
Benzo(a)anthracene	0.20	ug/L	0.099	0.0076	2	11/17/11 12:00	11/17/11 18:31	56-55-3	
Benzo(a)pyrene	0.34	ug/L	0.099	0.0060	2	11/17/11 12:00	11/17/11 18:31	50-32-8	
Benzo(b)fluoranthene	0.28	ug/L	0.099	0.0071	2	11/17/11 12:00	11/17/11 18:31	205-99-2	
Benzo(g,h,i)perylene	0.35	ug/L	0.099	0.010	2	11/17/11 12:00	11/17/11 18:31	191-24-2	
Benzo(k)fluoranthene	0.39	ug/L	0.099	0.0092	2	11/17/11 12:00	11/17/11 18:31	207-08-9	
Chrysene	0.38	ug/L	0.099	0.0073	2	11/17/11 12:00	11/17/11 18:31	218-01-9	
Dibenz(a,h)anthracene	0.073J	ug/L	0.099	0.0067	2	11/17/11 12:00	11/17/11 18:31	53-70-3	
Fluoranthene	0.51	ug/L	0.099	0.0092	2	11/17/11 12:00	11/17/11 18:31	206-44-0	
Fluorene	0.028J	ug/L	0.099	0.010	2	11/17/11 12:00	11/17/11 18:31	86-73-7	
Indeno(1,2,3-cd)pyrene	0.25	ug/L	0.099	0.0098	2	11/17/11 12:00	11/17/11 18:31	193-39-5	
1-Methylnaphthalene	0.40	ug/L	0.099	0.010	2	11/17/11 12:00	11/17/11 18:31	90-12-0	
2-Methylnaphthalene	0.20	ug/L	0.099	0.0081	2	11/17/11 12:00	11/17/11 18:31	91-57-6	
Naphthalene	0.88	ug/L	0.099	0.010	2	11/17/11 12:00	11/17/11 18:31	91-20-3	B
Phenanthrene	0.16	ug/L	0.099	0.017	2	11/17/11 12:00	11/17/11 18:31	85-01-8	
Pyrene	0.45	ug/L	0.099	0.010	2	11/17/11 12:00	11/17/11 18:31	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52 %.		27-130		2	11/17/11 12:00	11/17/11 18:31	321-60-8	
Terphenyl-d14 (S)	82 %.		66-140		2	11/17/11 12:00	11/17/11 18:31	1718-51-0	

Sample: MW-7 **Lab ID: 4053624002** Collected: 11/10/11 14:50 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 15:08	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 15:08	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/16/11 15:08	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 15:08	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/16/11 15:08	95-63-6	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-7 Lab ID: 4053624002 Collected: 11/10/11 14:50 Received: 11/15/11 10:09 Matrix: Water									
WIGRO GCV Analytical Method: WI MOD GRO									
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 15:08	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 15:08	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 15:08	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %.		80-120		1		11/16/11 15:08	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	<0.0046	ug/L	0.048	0.0046	1	11/17/11 12:00	11/17/11 15:35	83-32-9	
Acenaphthylene	<0.0036	ug/L	0.048	0.0036	1	11/17/11 12:00	11/17/11 15:35	208-96-8	
Anthracene	0.032J	ug/L	0.048	0.0058	1	11/17/11 12:00	11/17/11 15:35	120-12-7	
Benzo(a)anthracene	<0.0037	ug/L	0.048	0.0037	1	11/17/11 12:00	11/17/11 15:35	56-55-3	
Benzo(a)pyrene	<0.0029	ug/L	0.048	0.0029	1	11/17/11 12:00	11/17/11 15:35	50-32-8	
Benzo(b)fluoranthene	<0.0034	ug/L	0.048	0.0034	1	11/17/11 12:00	11/17/11 15:35	205-99-2	
Benzo(g,h,i)perylene	<0.0049	ug/L	0.048	0.0049	1	11/17/11 12:00	11/17/11 15:35	191-24-2	
Benzo(k)fluoranthene	<0.0044	ug/L	0.048	0.0044	1	11/17/11 12:00	11/17/11 15:35	207-08-9	
Chrysene	<0.0035	ug/L	0.048	0.0035	1	11/17/11 12:00	11/17/11 15:35	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.048	0.0032	1	11/17/11 12:00	11/17/11 15:35	53-70-3	
Fluoranthene	0.0045J	ug/L	0.048	0.0044	1	11/17/11 12:00	11/17/11 15:35	206-44-0	
Fluorene	<0.0048	ug/L	0.048	0.0048	1	11/17/11 12:00	11/17/11 15:35	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.048	0.0047	1	11/17/11 12:00	11/17/11 15:35	193-39-5	
1-Methylnaphthalene	0.013J	ug/L	0.048	0.0050	1	11/17/11 12:00	11/17/11 15:35	90-12-0	
2-Methylnaphthalene	0.021J	ug/L	0.048	0.0039	1	11/17/11 12:00	11/17/11 15:35	91-57-6	B
Naphthalene	0.081	ug/L	0.048	0.0049	1	11/17/11 12:00	11/17/11 15:35	91-20-3	B
Phenanthrene	0.0086J	ug/L	0.048	0.0082	1	11/17/11 12:00	11/17/11 15:35	85-01-8	
Pyrene	<0.0048	ug/L	0.048	0.0048	1	11/17/11 12:00	11/17/11 15:35	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	50 %.		27-130		1	11/17/11 12:00	11/17/11 15:35	321-60-8	
Terphenyl-d14 (S)	94 %.		66-140		1	11/17/11 12:00	11/17/11 15:35	1718-51-0	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-2 Lab ID: 4053624003 Collected: 11/10/11 13:10 Received: 11/15/11 10:09 Matrix: Water									
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 15:33	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 15:33	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/16/11 15:33	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 15:33	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/16/11 15:33	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 15:33	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 15:33	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 15:33	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	110 %.		80-120		1		11/16/11 15:33	98-08-8	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-2		Lab ID: 4053624003	Collected: 11/10/11 13:10	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	0.051	ug/L	0.047	0.0045	1	11/17/11 12:00	11/17/11 15:53	83-32-9	
Acenaphthylene	0.016J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 15:53	208-96-8	
Anthracene	0.13	ug/L	0.047	0.0057	1	11/17/11 12:00	11/17/11 15:53	120-12-7	
Benzo(a)anthracene	<0.0036	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 15:53	56-55-3	
Benzo(a)pyrene	<0.0029	ug/L	0.047	0.0029	1	11/17/11 12:00	11/17/11 15:53	50-32-8	
Benzo(b)fluoranthene	<0.0034	ug/L	0.047	0.0034	1	11/17/11 12:00	11/17/11 15:53	205-99-2	
Benzo(g,h,i)perylene	0.0050J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 15:53	191-24-2	
Benzo(k)fluoranthene	<0.0044	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 15:53	207-08-9	
Chrysene	0.0051J	ug/L	0.047	0.0035	1	11/17/11 12:00	11/17/11 15:53	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/17/11 12:00	11/17/11 15:53	53-70-3	
Fluoranthene	0.016J	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 15:53	206-44-0	
Fluorene	0.19	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 15:53	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0047	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 15:53	193-39-5	
1-Methylnaphthalene	0.018J	ug/L	0.047	0.0050	1	11/17/11 12:00	11/17/11 15:53	90-12-0	
2-Methylnaphthalene	0.031J	ug/L	0.047	0.0039	1	11/17/11 12:00	11/17/11 15:53	91-57-6	B
Naphthalene	0.042J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 15:53	91-20-3	B
Phenanthrene	0.035J	ug/L	0.047	0.0081	1	11/17/11 12:00	11/17/11 15:53	85-01-8	
Pyrene	0.039J	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 15:53	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	75 %.		27-130		1	11/17/11 12:00	11/17/11 15:53	321-60-8	
Terphenyl-d14 (S)	77 %.		66-140		1	11/17/11 12:00	11/17/11 15:53	1718-51-0	

Sample: MW-15		Lab ID: 4053624004	Collected: 11/10/11 13:20	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	4.3	ug/L	1.0	0.39	1		11/16/11 18:28	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 18:28	100-41-4	
Methyl-tert-butyl ether	0.66J	ug/L	1.0	0.38	1		11/16/11 18:28	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 18:28	108-88-3	
1,2,4-Trimethylbenzene	1.1	ug/L	1.0	0.43	1		11/16/11 18:28	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 18:28	108-67-8	
m&p-Xylene	1.1J	ug/L	2.0	0.87	1		11/16/11 18:28	179601-23-1	
o-Xylene	0.57J	ug/L	1.0	0.38	1		11/16/11 18:28	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %.		80-120		1		11/16/11 18:28	98-08-8	

8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	9.0	ug/L	0.94	0.091	20	11/17/11 12:00	11/17/11 14:26	83-32-9	
Acenaphthylene	2.0	ug/L	0.94	0.072	20	11/17/11 12:00	11/17/11 14:26	208-96-8	
Anthracene	2.8	ug/L	0.94	0.11	20	11/17/11 12:00	11/17/11 14:26	120-12-7	
Benzo(a)anthracene	0.16J	ug/L	0.94	0.072	20	11/17/11 12:00	11/17/11 14:26	56-55-3	
Benzo(a)pyrene	0.15J	ug/L	0.94	0.057	20	11/17/11 12:00	11/17/11 14:26	50-32-8	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-15		Lab ID: 4053624004	Collected: 11/10/11 13:20	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Benzo(b)fluoranthene	0.12J	ug/L	0.94	0.068	20	11/17/11 12:00	11/17/11 14:26	205-99-2	
Benzo(g,h,i)perylene	0.15J	ug/L	0.94	0.096	20	11/17/11 12:00	11/17/11 14:26	191-24-2	
Benzo(k)fluoranthene	0.19J	ug/L	0.94	0.087	20	11/17/11 12:00	11/17/11 14:26	207-08-9	
Chrysene	0.25J	ug/L	0.94	0.070	20	11/17/11 12:00	11/17/11 14:26	218-01-9	
Dibenz(a,h)anthracene	<0.064	ug/L	0.94	0.064	20	11/17/11 12:00	11/17/11 14:26	53-70-3	
Fluoranthene	0.72J	ug/L	0.94	0.088	20	11/17/11 12:00	11/17/11 14:26	206-44-0	
Fluorene	8.7	ug/L	0.94	0.095	20	11/17/11 12:00	11/17/11 14:26	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.094	ug/L	0.94	0.094	20	11/17/11 12:00	11/17/11 14:26	193-39-5	
1-Methylnaphthalene	5.7	ug/L	0.94	0.10	20	11/17/11 12:00	11/17/11 14:26	90-12-0	
2-Methylnaphthalene	0.77J	ug/L	0.94	0.077	20	11/17/11 12:00	11/17/11 14:26	91-57-6	
Naphthalene	5.7	ug/L	0.94	0.097	20	11/17/11 12:00	11/17/11 14:26	91-20-3	
Phenanthrene	0.93J	ug/L	0.94	0.16	20	11/17/11 12:00	11/17/11 14:26	85-01-8	
Pyrene	1.5	ug/L	0.94	0.095	20	11/17/11 12:00	11/17/11 14:26	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0 %		27-130		20	11/17/11 12:00	11/17/11 14:26	321-60-8	S4
Terphenyl-d14 (S)	0 %		66-140		20	11/17/11 12:00	11/17/11 14:26	1718-51-0	S4

Sample: MW-13		Lab ID: 4053624005	Collected: 11/10/11 13:35	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 18:53	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 18:53	100-41-4	
Methyl-tert-butyl ether	0.55J	ug/L	1.0	0.38	1		11/16/11 18:53	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 18:53	108-88-3	
1,2,4-Trimethylbenzene	2.5	ug/L	1.0	0.43	1		11/16/11 18:53	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 18:53	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 18:53	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 18:53	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	105 %		80-120		1		11/16/11 18:53	98-08-8	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	3.1	ug/L	0.47	0.045	10	11/17/11 12:00	11/18/11 08:55	83-32-9	
Acenaphthylene	1.0	ug/L	0.47	0.036	10	11/17/11 12:00	11/18/11 08:55	208-96-8	
Anthracene	3.4	ug/L	0.47	0.057	10	11/17/11 12:00	11/18/11 08:55	120-12-7	
Benzo(a)anthracene	0.30J	ug/L	0.47	0.036	10	11/17/11 12:00	11/18/11 08:55	56-55-3	
Benzo(a)pyrene	0.21J	ug/L	0.47	0.029	10	11/17/11 12:00	11/18/11 08:55	50-32-8	
Benzo(b)fluoranthene	0.22J	ug/L	0.47	0.034	10	11/17/11 12:00	11/18/11 08:55	205-99-2	
Benzo(g,h,i)perylene	0.14J	ug/L	0.47	0.048	10	11/17/11 12:00	11/18/11 08:55	191-24-2	
Benzo(k)fluoranthene	0.18J	ug/L	0.47	0.044	10	11/17/11 12:00	11/18/11 08:55	207-08-9	
Chrysene	0.35J	ug/L	0.47	0.035	10	11/17/11 12:00	11/18/11 08:55	218-01-9	
Dibenz(a,h)anthracene	0.042J	ug/L	0.47	0.032	10	11/17/11 12:00	11/18/11 08:55	53-70-3	

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ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-13 Lab ID: 4053624005 Collected: 11/10/11 13:35 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Fluoranthene	1.2	ug/L	0.47	0.044	10	11/17/11 12:00	11/18/11 08:55	206-44-0	
Fluorene	4.8	ug/L	0.47	0.048	10	11/17/11 12:00	11/18/11 08:55	86-73-7	
Indeno(1,2,3-cd)pyrene	0.11J	ug/L	0.47	0.047	10	11/17/11 12:00	11/18/11 08:55	193-39-5	
1-Methylnaphthalene	1.1	ug/L	0.47	0.050	10	11/17/11 12:00	11/18/11 08:55	90-12-0	
2-Methylnaphthalene	0.37J	ug/L	0.47	0.039	10	11/17/11 12:00	11/18/11 08:55	91-57-6	
Naphthalene	1.1	ug/L	0.47	0.048	10	11/17/11 12:00	11/18/11 08:55	91-20-3	
Phenanthrene	0.42J	ug/L	0.47	0.081	10	11/17/11 12:00	11/18/11 08:55	85-01-8	
Pyrene	2.4	ug/L	0.47	0.047	10	11/17/11 12:00	11/18/11 08:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	82 %		27-130		10	11/17/11 12:00	11/18/11 08:55	321-60-8	
Terphenyl-d14 (S)	129 %		66-140		10	11/17/11 12:00	11/18/11 08:55	1718-51-0	

Sample: MW-12 Lab ID: 4053624006 Collected: 11/10/11 14:00 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	11.7	ug/L	1.0	0.39	1		11/17/11 13:35	71-43-2	
Ethylbenzene	0.71J	ug/L	1.0	0.41	1		11/17/11 13:35	100-41-4	
Methyl-tert-butyl ether	2.2	ug/L	1.0	0.38	1		11/17/11 13:35	1634-04-4	
Toluene	0.67J	ug/L	1.0	0.42	1		11/17/11 13:35	108-88-3	
1,2,4-Trimethylbenzene	1.9	ug/L	1.0	0.43	1		11/17/11 13:35	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/17/11 13:35	108-67-8	
m&p-Xylene	1.4J	ug/L	2.0	0.87	1		11/17/11 13:35	179601-23-1	
o-Xylene	0.77J	ug/L	1.0	0.38	1		11/17/11 13:35	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104 %		80-120		1		11/17/11 13:35	98-08-8	

8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	52.4	ug/L	4.7	0.45	100	11/17/11 12:00	11/17/11 15:01	83-32-9	
Acenaphthylene	17.9	ug/L	4.7	0.36	100	11/17/11 12:00	11/17/11 15:01	208-96-8	
Anthracene	35.7	ug/L	4.7	0.57	100	11/17/11 12:00	11/17/11 15:01	120-12-7	
Benzo(a)anthracene	3.7J	ug/L	4.7	0.36	100	11/17/11 12:00	11/17/11 15:01	56-55-3	
Benzo(a)pyrene	3.1J	ug/L	4.7	0.29	100	11/17/11 12:00	11/17/11 15:01	50-32-8	
Benzo(b)fluoranthene	2.0J	ug/L	4.7	0.34	100	11/17/11 12:00	11/17/11 15:01	205-99-2	
Benzo(g,h,i)perylene	2.0J	ug/L	4.7	0.48	100	11/17/11 12:00	11/17/11 15:01	191-24-2	
Benzo(k)fluoranthene	3.5J	ug/L	4.7	0.44	100	11/17/11 12:00	11/17/11 15:01	207-08-9	
Chrysene	5.3	ug/L	4.7	0.35	100	11/17/11 12:00	11/17/11 15:01	218-01-9	
Dibenz(a,h)anthracene	<0.32	ug/L	4.7	0.32	100	11/17/11 12:00	11/17/11 15:01	53-70-3	
Fluoranthene	16.4	ug/L	4.7	0.44	100	11/17/11 12:00	11/17/11 15:01	206-44-0	
Fluorene	80.2	ug/L	4.7	0.48	100	11/17/11 12:00	11/17/11 15:01	86-73-7	
Indeno(1,2,3-cd)pyrene	1.6J	ug/L	4.7	0.47	100	11/17/11 12:00	11/17/11 15:01	193-39-5	
1-Methylnaphthalene	104	ug/L	9.4	1.0	200	11/17/11 12:00	11/18/11 02:41	90-12-0	
2-Methylnaphthalene	2.0J	ug/L	4.7	0.39	100	11/17/11 12:00	11/17/11 15:01	91-57-6	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL

Pace Project No.: 4053624

Sample: MW-12 **Lab ID: 4053624006** Collected: 11/10/11 14:00 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Naphthalene	24.7	ug/L	4.7	0.48	100	11/17/11 12:00	11/17/11 15:01	91-20-3	
Phenanthrene	10.4	ug/L	4.7	0.81	100	11/17/11 12:00	11/17/11 15:01	85-01-8	
Pyrene	24.5	ug/L	4.7	0.47	100	11/17/11 12:00	11/17/11 15:01	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0 %		27-130		100	11/17/11 12:00	11/17/11 15:01	321-60-8	S4
Terphenyl-d14 (S)	0 %		66-140		100	11/17/11 12:00	11/17/11 15:01	1718-51-0	S4

Sample: MW-14 **Lab ID: 4053624007** Collected: 11/10/11 13:45 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	3.3	ug/L	1.0	0.39	1		11/16/11 19:18	71-43-2	
Ethylbenzene	1.4	ug/L	1.0	0.41	1		11/16/11 19:18	100-41-4	
Methyl-tert-butyl ether	0.99J	ug/L	1.0	0.38	1		11/16/11 19:18	1634-04-4	
Toluene	0.73J	ug/L	1.0	0.42	1		11/16/11 19:18	108-88-3	
1,2,4-Trimethylbenzene	1.7	ug/L	1.0	0.43	1		11/16/11 19:18	95-63-6	
1,3,5-Trimethylbenzene	0.82J	ug/L	1.0	0.40	1		11/16/11 19:18	108-67-8	
m&p-Xylene	1.3J	ug/L	2.0	0.87	1		11/16/11 19:18	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 19:18	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	110 %		80-120		1		11/16/11 19:18	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	19.5	ug/L	2.4	0.23	50	11/17/11 12:00	11/18/11 18:33	83-32-9	
Acenaphthylene	3.6	ug/L	0.47	0.036	10	11/17/11 12:00	11/18/11 09:12	208-96-8	
Anthracene	11.4	ug/L	2.4	0.29	50	11/17/11 12:00	11/18/11 18:33	120-12-7	
Benzo(a)anthracene	1.3	ug/L	0.47	0.036	10	11/17/11 12:00	11/18/11 09:12	56-55-3	
Benzo(a)pyrene	0.72	ug/L	0.47	0.029	10	11/17/11 12:00	11/18/11 09:12	50-32-8	
Benzo(b)fluoranthene	0.72	ug/L	0.47	0.034	10	11/17/11 12:00	11/18/11 09:12	205-99-2	
Benzo(g,h,i)perylene	0.41J	ug/L	0.47	0.048	10	11/17/11 12:00	11/18/11 09:12	191-24-2	
Benzo(k)fluoranthene	0.56	ug/L	0.47	0.044	10	11/17/11 12:00	11/18/11 09:12	207-08-9	
Chrysene	1.3	ug/L	0.47	0.035	10	11/17/11 12:00	11/18/11 09:12	218-01-9	
Dibenz(a,h)anthracene	0.12J	ug/L	0.47	0.032	10	11/17/11 12:00	11/18/11 09:12	53-70-3	
Fluoranthene	5.3	ug/L	0.47	0.044	10	11/17/11 12:00	11/18/11 09:12	206-44-0	
Fluorene	26.7	ug/L	2.4	0.24	50	11/17/11 12:00	11/18/11 18:33	86-73-7	
Indeno(1,2,3-cd)pyrene	0.37J	ug/L	0.47	0.047	10	11/17/11 12:00	11/18/11 09:12	193-39-5	
1-Methylnaphthalene	9.0	ug/L	0.47	0.050	10	11/17/11 12:00	11/18/11 09:12	90-12-0	
2-Methylnaphthalene	0.94	ug/L	0.47	0.039	10	11/17/11 12:00	11/18/11 09:12	91-57-6	
Naphthalene	3.7	ug/L	0.47	0.048	10	11/17/11 12:00	11/18/11 09:12	91-20-3	
Phenanthrene	9.2	ug/L	2.4	0.40	50	11/17/11 12:00	11/18/11 18:33	85-01-8	
Pyrene	8.2	ug/L	0.47	0.047	10	11/17/11 12:00	11/18/11 09:12	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0 %		27-130		10	11/17/11 12:00	11/18/11 09:12	321-60-8	S4

Date: 11/22/2011 03:38 PM

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ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-14		Lab ID: 4053624007	Collected: 11/10/11 13:45	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Surrogates									
Terphenyl-d14 (S)	0 %.		66-140		10	11/17/11 12:00	11/18/11 09:12	1718-51-0	S4

Sample: MW-11		Lab ID: 4053624008	Collected: 11/10/11 14:25	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV		Analytical Method: WI MOD GRO							
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 15:59	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 15:59	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/16/11 15:59	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 15:59	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/16/11 15:59	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 15:59	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 15:59	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 15:59	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %.		80-120		1		11/16/11 15:59	98-08-8	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510							
Acenaphthene	0.020J	ug/L	0.047	0.0045	1	11/17/11 12:00	11/17/11 16:46	83-32-9	
Acenaphthylene	0.0045J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 16:46	208-96-8	
Anthracene	0.045J	ug/L	0.047	0.0057	1	11/17/11 12:00	11/17/11 16:46	120-12-7	
Benzo(a)anthracene	0.0044J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 16:46	56-55-3	
Benzo(a)pyrene	0.0043J	ug/L	0.047	0.0029	1	11/17/11 12:00	11/17/11 16:46	50-32-8	
Benzo(b)fluoranthene	0.0050J	ug/L	0.047	0.0034	1	11/17/11 12:00	11/17/11 16:46	205-99-2	
Benzo(g,h,i)perylene	0.0076J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 16:46	191-24-2	
Benzo(k)fluoranthene	<0.0044	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 16:46	207-08-9	
Chrysene	0.0095J	ug/L	0.047	0.0035	1	11/17/11 12:00	11/17/11 16:46	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/17/11 12:00	11/17/11 16:46	53-70-3	
Fluoranthene	0.013J	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 16:46	206-44-0	
Fluorene	0.0082J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 16:46	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0048J	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 16:46	193-39-5	
1-Methylnaphthalene	0.017J	ug/L	0.047	0.0050	1	11/17/11 12:00	11/17/11 16:46	90-12-0	
2-Methylnaphthalene	0.022J	ug/L	0.047	0.0039	1	11/17/11 12:00	11/17/11 16:46	91-57-6	B
Naphthalene	0.030J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 16:46	91-20-3	B
Phenanthrene	0.021J	ug/L	0.047	0.0081	1	11/17/11 12:00	11/17/11 16:46	85-01-8	
Pyrene	0.017J	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 16:46	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	52 %.		27-130		1	11/17/11 12:00	11/17/11 16:46	321-60-8	
Terphenyl-d14 (S)	101 %.		66-140		1	11/17/11 12:00	11/17/11 16:46	1718-51-0	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-3 Lab ID: 4053624009 Collected: 11/10/11 14:40 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 16:23	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 16:23	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/16/11 16:23	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 16:23	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/16/11 16:23	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 16:23	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 16:23	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 16:23	95-47-6	

Surrogates

a,a,a-Trifluorotoluene (S) 101 % 80-120 1 11/16/11 16:23 98-08-8

8270 MSSV PAH by SIM

Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510

Acenaphthene	<0.0046	ug/L	0.048	0.0046	1	11/17/11 12:00	11/17/11 17:03	83-32-9	
Acenaphthylene	0.0087J	ug/L	0.048	0.0036	1	11/17/11 12:00	11/17/11 17:03	208-96-8	
Anthracene	0.029J	ug/L	0.048	0.0058	1	11/17/11 12:00	11/17/11 17:03	120-12-7	
Benzo(a)anthracene	0.027J	ug/L	0.048	0.0037	1	11/17/11 12:00	11/17/11 17:03	56-55-3	
Benzo(a)pyrene	0.032J	ug/L	0.048	0.0029	1	11/17/11 12:00	11/17/11 17:03	50-32-8	
Benzo(b)fluoranthene	0.018J	ug/L	0.048	0.0034	1	11/17/11 12:00	11/17/11 17:03	205-99-2	
Benzo(g,h,i)perylene	0.023J	ug/L	0.048	0.0049	1	11/17/11 12:00	11/17/11 17:03	191-24-2	
Benzo(k)fluoranthene	0.027J	ug/L	0.048	0.0044	1	11/17/11 12:00	11/17/11 17:03	207-08-9	
Chrysene	0.040J	ug/L	0.048	0.0035	1	11/17/11 12:00	11/17/11 17:03	218-01-9	
Dibenz(a,h)anthracene	0.0054J	ug/L	0.048	0.0032	1	11/17/11 12:00	11/17/11 17:03	53-70-3	
Fluoranthene	0.060	ug/L	0.048	0.0044	1	11/17/11 12:00	11/17/11 17:03	206-44-0	
Fluorene	<0.0048	ug/L	0.048	0.0048	1	11/17/11 12:00	11/17/11 17:03	86-73-7	
Indeno(1,2,3-cd)pyrene	0.016J	ug/L	0.048	0.0047	1	11/17/11 12:00	11/17/11 17:03	193-39-5	
1-Methylnaphthalene	<0.0050	ug/L	0.048	0.0050	1	11/17/11 12:00	11/17/11 17:03	90-12-0	
2-Methylnaphthalene	0.0046J	ug/L	0.048	0.0039	1	11/17/11 12:00	11/17/11 17:03	91-57-6	B
Naphthalene	0.011J	ug/L	0.048	0.0049	1	11/17/11 12:00	11/17/11 17:03	91-20-3	B
Phenanthrene	0.044J	ug/L	0.048	0.0082	1	11/17/11 12:00	11/17/11 17:03	85-01-8	
Pyrene	0.075	ug/L	0.048	0.0048	1	11/17/11 12:00	11/17/11 17:03	129-00-0	

Surrogates

2-Fluorobiphenyl (S) 67 % 27-130 1 11/17/11 12:00 11/17/11 17:03 321-60-8
Terphenyl-d14 (S) 85 % 66-140 1 11/17/11 12:00 11/17/11 17:03 1718-51-0

Sample: MW-17 Lab ID: 4053624010 Collected: 11/10/11 15:40 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/16/11 16:49	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/16/11 16:49	100-41-4	
Methyl-tert-butyl ether	4.1	ug/L	1.0	0.38	1		11/16/11 16:49	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 16:49	108-88-3	
1,2,4-Trimethylbenzene	0.47J	ug/L	1.0	0.43	1		11/16/11 16:49	95-63-6	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-17		Lab ID: 4053624010	Collected: 11/10/11 15:40	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 16:49	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 16:49	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 16:49	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-120		1		11/16/11 16:49	98-08-8	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	1.4	ug/L	0.095	0.0091	2	11/17/11 12:00	11/18/11 09:30	83-32-9	
Acenaphthylene	0.064	ug/L	0.048	0.0036	1	11/17/11 12:00	11/17/11 17:21	208-96-8	
Anthracene	0.12	ug/L	0.048	0.0058	1	11/17/11 12:00	11/17/11 17:21	120-12-7	
Benzo(a)anthracene	0.021J	ug/L	0.048	0.0037	1	11/17/11 12:00	11/17/11 17:21	56-55-3	
Benzo(a)pyrene	0.018J	ug/L	0.048	0.0029	1	11/17/11 12:00	11/17/11 17:21	50-32-8	
Benzo(b)fluoranthene	0.020J	ug/L	0.048	0.0034	1	11/17/11 12:00	11/17/11 17:21	205-99-2	
Benzo(g,h,i)perylene	0.019J	ug/L	0.048	0.0049	1	11/17/11 12:00	11/17/11 17:21	191-24-2	
Benzo(k)fluoranthene	0.016J	ug/L	0.048	0.0044	1	11/17/11 12:00	11/17/11 17:21	207-08-9	
Chrysene	0.030J	ug/L	0.048	0.0035	1	11/17/11 12:00	11/17/11 17:21	218-01-9	
Dibenz(a,h)anthracene	0.0037J	ug/L	0.048	0.0032	1	11/17/11 12:00	11/17/11 17:21	53-70-3	
Fluoranthene	0.064	ug/L	0.048	0.0044	1	11/17/11 12:00	11/17/11 17:21	206-44-0	
Fluorene	0.74	ug/L	0.048	0.0048	1	11/17/11 12:00	11/17/11 17:21	86-73-7	
Indeno(1,2,3-cd)pyrene	0.012J	ug/L	0.048	0.0047	1	11/17/11 12:00	11/17/11 17:21	193-39-5	
1-Methylnaphthalene	0.37	ug/L	0.048	0.0050	1	11/17/11 12:00	11/17/11 17:21	90-12-0	
2-Methylnaphthalene	0.35	ug/L	0.048	0.0039	1	11/17/11 12:00	11/17/11 17:21	91-57-6	
Naphthalene	0.77	ug/L	0.048	0.0049	1	11/17/11 12:00	11/17/11 17:21	91-20-3	
Phenanthrene	0.049	ug/L	0.048	0.0082	1	11/17/11 12:00	11/17/11 17:21	85-01-8	
Pyrene	0.15	ug/L	0.048	0.0048	1	11/17/11 12:00	11/17/11 17:21	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	53 %		27-130		1	11/17/11 12:00	11/17/11 17:21	321-60-8	
Terphenyl-d14 (S)	102 %		66-140		1	11/17/11 12:00	11/17/11 17:21	1718-51-0	

Sample: MW-16R		Lab ID: 4053624011	Collected: 11/10/11 15:50	Received: 11/15/11 10:09	Matrix: Water				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV									
Analytical Method: WI MOD GRO									
Benzene	2.3	ug/L	1.0	0.39	1		11/16/11 17:13	71-43-2	
Ethylbenzene	0.44J	ug/L	1.0	0.41	1		11/16/11 17:13	100-41-4	
Methyl-tert-butyl ether	1.5	ug/L	1.0	0.38	1		11/16/11 17:13	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/16/11 17:13	108-88-3	
1,2,4-Trimethylbenzene	3.9	ug/L	1.0	0.43	1		11/16/11 17:13	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/16/11 17:13	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/16/11 17:13	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/16/11 17:13	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-120		1		11/16/11 17:13	98-08-8	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: MW-16R Lab ID: 4053624011 Collected: 11/10/11 15:50 Received: 11/15/11 10:09 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	1.8	ug/L	1.1	0.11	20	11/17/11 12:00	11/17/11 14:43	83-32-9	
Acenaphthylene	0.30J	ug/L	1.1	0.085	20	11/17/11 12:00	11/17/11 14:43	208-96-8	
Anthracene	0.34J	ug/L	1.1	0.14	20	11/17/11 12:00	11/17/11 14:43	120-12-7	
Benzo(a)anthracene	0.090J	ug/L	1.1	0.085	20	11/17/11 12:00	11/17/11 14:43	56-55-3	
Benzo(a)pyrene	0.071J	ug/L	1.1	0.067	20	11/17/11 12:00	11/17/11 14:43	50-32-8	
Benzo(b)fluoranthene	<0.080	ug/L	1.1	0.080	20	11/17/11 12:00	11/17/11 14:43	205-99-2	
Benzo(g,h,i)perylene	<0.11	ug/L	1.1	0.11	20	11/17/11 12:00	11/17/11 14:43	191-24-2	
Benzo(k)fluoranthene	0.13J	ug/L	1.1	0.10	20	11/17/11 12:00	11/17/11 14:43	207-08-9	
Chrysene	0.19J	ug/L	1.1	0.082	20	11/17/11 12:00	11/17/11 14:43	218-01-9	
Dibenz(a,h)anthracene	<0.075	ug/L	1.1	0.075	20	11/17/11 12:00	11/17/11 14:43	53-70-3	
Fluoranthene	0.43J	ug/L	1.1	0.10	20	11/17/11 12:00	11/17/11 14:43	206-44-0	
Fluorene	2.3	ug/L	1.1	0.11	20	11/17/11 12:00	11/17/11 14:43	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.11	ug/L	1.1	0.11	20	11/17/11 12:00	11/17/11 14:43	193-39-5	
1-Methylnaphthalene	13.1	ug/L	1.1	0.12	20	11/17/11 12:00	11/17/11 14:43	90-12-0	
2-Methylnaphthalene	0.76J	ug/L	1.1	0.091	20	11/17/11 12:00	11/17/11 14:43	91-57-6	
Naphthalene	1.1J	ug/L	1.1	0.11	20	11/17/11 12:00	11/17/11 14:43	91-20-3	
Phenanthrene	0.85J	ug/L	1.1	0.19	20	11/17/11 12:00	11/17/11 14:43	85-01-8	
Pyrene	0.45J	ug/L	1.1	0.11	20	11/17/11 12:00	11/17/11 14:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	0 %		27-130		20	11/17/11 12:00	11/17/11 14:43	321-60-8	S4
Terphenyl-d14 (S)	0 %		66-140		20	11/17/11 12:00	11/17/11 14:43	1718-51-0	S4

Sample: SUMP-1 Lab ID: 4053624012 Collected: 11/11/11 10:00 Received: 11/15/11 10:09 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/19/11 00:09	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/19/11 00:09	100-41-4	
Methyl-tert-butyl ether	0.44J	ug/L	1.0	0.38	1		11/19/11 00:09	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/19/11 00:09	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/19/11 00:09	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/19/11 00:09	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/19/11 00:09	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/19/11 00:09	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1		11/19/11 00:09	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	0.29	ug/L	0.047	0.0045	1	11/17/11 12:00	11/17/11 21:43	83-32-9	
Acenaphthylene	0.015J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 21:43	208-96-8	
Anthracene	0.038J	ug/L	0.047	0.0057	1	11/17/11 12:00	11/17/11 21:43	120-12-7	
Benzo(a)anthracene	0.0041J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 21:43	56-55-3	
Benzo(a)pyrene	0.0055J	ug/L	0.047	0.0029	1	11/17/11 12:00	11/17/11 21:43	50-32-8	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SUMP-1 Lab ID: 4053624012 Collected: 11/11/11 10:00 Received: 11/15/11 10:09 Matrix: Water									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Benzo(b)fluoranthene	0.0070J	ug/L	0.047	0.0034	1	11/17/11 12:00	11/17/11 21:43	205-99-2	
Benzo(g,h,i)perylene	0.0093J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 21:43	191-24-2	
Benzo(k)fluoranthene	<0.0044	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 21:43	207-08-9	
Chrysene	0.0070J	ug/L	0.047	0.0035	1	11/17/11 12:00	11/17/11 21:43	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/17/11 12:00	11/17/11 21:43	53-70-3	
Fluoranthene	0.017J	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 21:43	206-44-0	
Fluorene	0.15	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 21:43	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0059J	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 21:43	193-39-5	
1-Methylnaphthalene	0.014J	ug/L	0.047	0.0050	1	11/17/11 12:00	11/17/11 21:43	90-12-0	
2-Methylnaphthalene	0.032J	ug/L	0.047	0.0039	1	11/17/11 12:00	11/17/11 21:43	91-57-6	B
Naphthalene	0.0049J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 21:43	91-20-3	B
Phenanthrene	0.018J	ug/L	0.047	0.0081	1	11/17/11 12:00	11/17/11 21:43	85-01-8	
Pyrene	0.057	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 21:43	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64 %		27-130		1	11/17/11 12:00	11/17/11 21:43	321-60-8	
Terphenyl-d14 (S)	85 %		66-140		1	11/17/11 12:00	11/17/11 21:43	1718-51-0	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: SUMP-3 Lab ID: 4053624013 Collected: 11/11/11 10:10 Received: 11/15/11 10:09 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		11/19/11 00:34	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/19/11 00:34	100-41-4	
Methyl-tert-butyl ether	0.72J	ug/L	1.0	0.38	1		11/19/11 00:34	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/19/11 00:34	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/19/11 00:34	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/19/11 00:34	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/19/11 00:34	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/19/11 00:34	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-120		1		11/19/11 00:34	98-08-8	
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Acenaphthene	1.6	ug/L	0.24	0.023	5	11/17/11 12:00	11/18/11 11:15	83-32-9	
Acenaphthylene	0.21	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 22:18	208-96-8	
Anthracene	0.20	ug/L	0.047	0.0057	1	11/17/11 12:00	11/17/11 22:18	120-12-7	
Benzo(a)anthracene	0.0053J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 22:18	56-55-3	
Benzo(a)pyrene	0.0044J	ug/L	0.047	0.0029	1	11/17/11 12:00	11/17/11 22:18	50-32-8	
Benzo(b)fluoranthene	0.0046J	ug/L	0.047	0.0034	1	11/17/11 12:00	11/17/11 22:18	205-99-2	
Benzo(g,h,i)perylene	0.017J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 22:18	191-24-2	
Benzo(k)fluoranthene	<0.0044	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 22:18	207-08-9	
Chrysene	0.0077J	ug/L	0.047	0.0035	1	11/17/11 12:00	11/17/11 22:18	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/17/11 12:00	11/17/11 22:18	53-70-3	

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

Sample: SUMP-3 Lab ID: 4053624013 Collected: 11/11/11 10:10 Received: 11/15/11 10:09 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Fluoranthene	0.071	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 22:18	206-44-0	
Fluorene	2.3	ug/L	0.24	0.024	5	11/17/11 12:00	11/18/11 11:15	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0050J	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 22:18	193-39-5	
1-Methylnaphthalene	0.20	ug/L	0.047	0.0050	1	11/17/11 12:00	11/17/11 22:18	90-12-0	
2-Methylnaphthalene	0.098	ug/L	0.047	0.0039	1	11/17/11 12:00	11/17/11 22:18	91-57-6	
Naphthalene	0.31	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 22:18	91-20-3	
Phenanthrene	0.052	ug/L	0.047	0.0081	1	11/17/11 12:00	11/17/11 22:18	85-01-8	
Pyrene	0.082	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 22:18	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	87 %		27-130		1	11/17/11 12:00	11/17/11 22:18	321-60-8	
Terphenyl-d14 (S)	88 %		66-140		1	11/17/11 12:00	11/17/11 22:18	1718-51-0	

Sample: SUMP-4 Lab ID: 4053624014 Collected: 11/11/11 10:20 Received: 11/15/11 10:09 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	9.6	ug/L	1.0	0.39	1		11/19/11 04:45	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/19/11 04:45	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		11/19/11 04:45	1634-04-4	
Toluene	<0.42	ug/L	1.0	0.42	1		11/19/11 04:45	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		11/19/11 04:45	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/19/11 04:45	108-67-8	
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/19/11 04:45	179601-23-1	
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/19/11 04:45	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	102 %		80-120		1		11/19/11 04:45	98-08-8	

8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Acenaphthene	0.28	ug/L	0.047	0.0045	1	11/17/11 12:00	11/17/11 22:01	83-32-9	
Acenaphthylene	0.023J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 22:01	208-96-8	
Anthracene	0.099	ug/L	0.047	0.0057	1	11/17/11 12:00	11/17/11 22:01	120-12-7	
Benzo(a)anthracene	0.0050J	ug/L	0.047	0.0036	1	11/17/11 12:00	11/17/11 22:01	56-55-3	
Benzo(a)pyrene	0.0071J	ug/L	0.047	0.0029	1	11/17/11 12:00	11/17/11 22:01	50-32-8	
Benzo(b)fluoranthene	0.0089J	ug/L	0.047	0.0034	1	11/17/11 12:00	11/17/11 22:01	205-99-2	
Benzo(g,h,i)perylene	0.018J	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 22:01	191-24-2	
Benzo(k)fluoranthene	0.0056J	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 22:01	207-08-9	
Chrysene	0.013J	ug/L	0.047	0.0035	1	11/17/11 12:00	11/17/11 22:01	218-01-9	
Dibenz(a,h)anthracene	<0.0032	ug/L	0.047	0.0032	1	11/17/11 12:00	11/17/11 22:01	53-70-3	
Fluoranthene	0.017J	ug/L	0.047	0.0044	1	11/17/11 12:00	11/17/11 22:01	206-44-0	
Fluorene	0.22	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 22:01	86-73-7	
Indeno(1,2,3-cd)pyrene	0.0079J	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 22:01	193-39-5	
1-Methylnaphthalene	0.043J	ug/L	0.047	0.0050	1	11/17/11 12:00	11/17/11 22:01	90-12-0	
2-Methylnaphthalene	0.060	ug/L	0.047	0.0039	1	11/17/11 12:00	11/17/11 22:01	91-57-6	B



ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
 Pace Project No.: 4053624

Sample: SUMP-4		Lab ID: 4053624014	Collected: 11/11/11 10:20	Received: 11/15/11 10:09	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Naphthalene	0.15	ug/L	0.047	0.0048	1	11/17/11 12:00	11/17/11 22:01	91-20-3	B	
Phenanthrene	0.039J	ug/L	0.047	0.0081	1	11/17/11 12:00	11/17/11 22:01	85-01-8		
Pyrene	0.18	ug/L	0.047	0.0047	1	11/17/11 12:00	11/17/11 22:01	129-00-0		
Surrogates										
2-Fluorobiphenyl (S)	65 %		27-130		1	11/17/11 12:00	11/17/11 22:01	321-60-8		
Terphenyl-d14 (S)	103 %		66-140		1	11/17/11 12:00	11/17/11 22:01	1718-51-0		

Sample: SUMP-2		Lab ID: 4053624015	Collected: 11/11/11 10:30	Received: 11/15/11 10:09	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV		Analytical Method: WI MOD GRO								
Benzene	<0.39	ug/L	1.0	0.39	1		11/19/11 05:10	71-43-2		
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		11/19/11 05:10	100-41-4		
Methyl-tert-butyl ether	1.8	ug/L	1.0	0.38	1		11/19/11 05:10	1634-04-4		
Toluene	<0.42	ug/L	1.0	0.42	1		11/19/11 05:10	108-88-3		
1,2,4-Trimethylbenzene	0.45J	ug/L	1.0	0.43	1		11/19/11 05:10	95-63-6		
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		11/19/11 05:10	108-67-8		
m&p-Xylene	<0.87	ug/L	2.0	0.87	1		11/19/11 05:10	179601-23-1		
o-Xylene	<0.38	ug/L	1.0	0.38	1		11/19/11 05:10	95-47-6		
Surrogates										
a,a,a-Trifluorotoluene (S)	102 %		80-120		1		11/19/11 05:10	98-08-8		

8270 MSSV PAH by SIM		Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510								
Acenaphthene	1.9	ug/L	0.24	0.023	5	11/18/11 12:00	11/21/11 09:20	83-32-9		
Acenaphthylene	0.12J	ug/L	0.24	0.018	5	11/18/11 12:00	11/21/11 09:20	208-96-8		
Anthracene	0.33	ug/L	0.24	0.029	5	11/18/11 12:00	11/21/11 09:20	120-12-7		
Benzo(a)anthracene	0.13J	ug/L	0.24	0.018	5	11/18/11 12:00	11/21/11 09:20	56-55-3		
Benzo(a)pyrene	0.11J	ug/L	0.24	0.014	5	11/18/11 12:00	11/21/11 09:20	50-32-8		
Benzo(b)fluoranthene	0.11J	ug/L	0.24	0.017	5	11/18/11 12:00	11/21/11 09:20	205-99-2		
Benzo(g,h,i)perylene	0.065J	ug/L	0.24	0.024	5	11/18/11 12:00	11/21/11 09:20	191-24-2		
Benzo(k)fluoranthene	0.090J	ug/L	0.24	0.022	5	11/18/11 12:00	11/21/11 09:20	207-08-9		
Chrysene	0.12J	ug/L	0.24	0.017	5	11/18/11 12:00	11/21/11 09:20	218-01-9		
Dibenz(a,h)anthracene	0.021J	ug/L	0.24	0.016	5	11/18/11 12:00	11/21/11 09:20	53-70-3		
Fluoranthene	0.50	ug/L	0.24	0.022	5	11/18/11 12:00	11/21/11 09:20	206-44-0		
Fluorene	1.9	ug/L	0.24	0.024	5	11/18/11 12:00	11/21/11 09:20	86-73-7		
Indeno(1,2,3-cd)pyrene	0.061J	ug/L	0.24	0.023	5	11/18/11 12:00	11/21/11 09:20	193-39-5		
1-Methylnaphthalene	0.16J	ug/L	0.24	0.025	5	11/18/11 12:00	11/21/11 09:20	90-12-0		
2-Methylnaphthalene	0.13J	ug/L	0.24	0.019	5	11/18/11 12:00	11/21/11 09:20	91-57-6		
Naphthalene	0.34	ug/L	0.24	0.024	5	11/18/11 12:00	11/21/11 09:20	91-20-3		
Phenanthrene	0.084J	ug/L	0.24	0.040	5	11/18/11 12:00	11/21/11 09:20	85-01-8		
Pyrene	0.50	ug/L	0.24	0.024	5	11/18/11 12:00	11/21/11 09:20	129-00-0		
Surrogates										
2-Fluorobiphenyl (S)	85 %		27-130		5	11/18/11 12:00	11/21/11 09:20	321-60-8		



Pace Analytical Services, Inc.
 1241 Bellevue Street - Suite 9
 Green Bay, WI 54302
 (920)469-2436

ANALYTICAL RESULTS

Project: 10584.00 BYRNS OIL
 Pace Project No.: 4053624

Sample: SUMP-2 **Lab ID: 4053624015** Collected: 11/11/11 10:30 Received: 11/15/11 10:09 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
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8270 MSSV PAH by SIM Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3510

Surrogates

Terphenyl-d14 (S)	107 %.		66-140		5	11/18/11 12:00	11/21/11 09:20	1718-51-0	
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QUALITY CONTROL DATA

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

QC Batch: GCV/7625 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 4053624012, 4053624013, 4053624014, 4053624015

METHOD BLANK: 535899 Matrix: Water
Associated Lab Samples: 4053624012, 4053624013, 4053624014, 4053624015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	11/18/11 22:54	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	11/18/11 22:54	
Benzene	ug/L	<0.39	1.0	11/18/11 22:54	
Ethylbenzene	ug/L	<0.41	1.0	11/18/11 22:54	
m&p-Xylene	ug/L	<0.87	2.0	11/18/11 22:54	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	11/18/11 22:54	
o-Xylene	ug/L	<0.38	1.0	11/18/11 22:54	
Toluene	ug/L	<0.42	1.0	11/18/11 22:54	
a,a,a-Trifluorotoluene (S)	%	103	80-120	11/18/11 22:54	

LABORATORY CONTROL SAMPLE & LCSD: 535900 535901

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.6	20.9	103	105	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.3	20.4	101	102	80-120	.5	20	
Benzene	ug/L	20	21.5	21.5	108	108	80-120	.03	20	
Ethylbenzene	ug/L	20	20.2	20.4	101	102	80-120	.8	20	
m&p-Xylene	ug/L	40	40.6	40.8	101	102	80-120	.7	20	
Methyl-tert-butyl ether	ug/L	20	20.3	20.3	102	102	80-120	.05	20	
o-Xylene	ug/L	20	20.4	20.6	102	103	80-120	.9	20	
Toluene	ug/L	20	20.5	20.7	103	103	80-120	.8	20	
a,a,a-Trifluorotoluene (S)	%				102	103	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 536385 536386

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		4053732004 Result	Spike Conc.	Spike Conc.	MS Conc.							
1,2,4-Trimethylbenzene	ug/L	1310	500	500	1850	1640	108	65	10-200	12	20	
1,3,5-Trimethylbenzene	ug/L	349	500	500	881	763	106	83	56-169	14	20	
Benzene	ug/L	31.3	500	500	586	510	111	96	33-173	14	20	
Ethylbenzene	ug/L	876	500	500	1380	1200	102	65	49-158	14	20	
m&p-Xylene	ug/L	3430	1000	1000	4460	3870	102	44	44-163	14	20	
Methyl-tert-butyl ether	ug/L	<9.5	500	500	544	515	109	103	80-130	6	20	
o-Xylene	ug/L	1180	500	500	1700	1500	104	66	64-140	12	20	
Toluene	ug/L	635	500	500	1160	1010	105	75	79-132	14	20	M1
a,a,a-Trifluorotoluene (S)	%						103	104	80-120			

QUALITY CONTROL DATA

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

QC Batch: OEXT/13229 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
Associated Lab Samples: 4053624001, 4053624002, 4053624003, 4053624004, 4053624005, 4053624006, 4053624007, 4053624008, 4053624009, 4053624010, 4053624011, 4053624012, 4053624013, 4053624014

METHOD BLANK: 535126 Matrix: Water
Associated Lab Samples: 4053624001, 4053624002, 4053624003, 4053624004, 4053624005, 4053624006, 4053624007, 4053624008, 4053624009, 4053624010, 4053624011, 4053624012, 4053624013, 4053624014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.050	11/17/11 11:13	
2-Methylnaphthalene	ug/L	0.0052J	0.050	11/17/11 11:13	
Acenaphthene	ug/L	<0.0048	0.050	11/17/11 11:13	
Acenaphthylene	ug/L	<0.0038	0.050	11/17/11 11:13	
Anthracene	ug/L	<0.0061	0.050	11/17/11 11:13	
Benzo(a)anthracene	ug/L	<0.0038	0.050	11/17/11 11:13	
Benzo(a)pyrene	ug/L	<0.0030	0.050	11/17/11 11:13	
Benzo(b)fluoranthene	ug/L	<0.0036	0.050	11/17/11 11:13	
Benzo(g,h,i)perylene	ug/L	<0.0051	0.050	11/17/11 11:13	
Benzo(k)fluoranthene	ug/L	<0.0046	0.050	11/17/11 11:13	
Chrysene	ug/L	<0.0037	0.050	11/17/11 11:13	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	11/17/11 11:13	
Fluoranthene	ug/L	<0.0047	0.050	11/17/11 11:13	
Fluorene	ug/L	<0.0051	0.050	11/17/11 11:13	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	0.050	11/17/11 11:13	
Naphthalene	ug/L	0.017J	0.050	11/17/11 11:13	
Phenanthrene	ug/L	<0.0086	0.050	11/17/11 11:13	
Pyrene	ug/L	<0.0050	0.050	11/17/11 11:13	
2-Fluorobiphenyl (S)	%	72	27-130	11/17/11 11:13	
Terphenyl-d14 (S)	%	72	66-140	11/17/11 11:13	

LABORATORY CONTROL SAMPLE: 535127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.17	87	32-130	
2-Methylnaphthalene	ug/L	.2	0.18	88	29-130	
Acenaphthene	ug/L	.2	0.17	84	30-130	
Acenaphthylene	ug/L	.2	0.17	83	23-130	
Anthracene	ug/L	.2	0.13	66	20-130	
Benzo(a)anthracene	ug/L	.2	0.14	70	34-130	
Benzo(a)pyrene	ug/L	.2	0.19	95	41-130	
Benzo(b)fluoranthene	ug/L	.2	0.13	63	31-131	
Benzo(g,h,i)perylene	ug/L	.2	0.18	90	51-130	
Benzo(k)fluoranthene	ug/L	.2	0.24	121	56-130	
Chrysene	ug/L	.2	0.24	119	55-130	
Dibenz(a,h)anthracene	ug/L	.2	0.18	89	40-130	
Fluoranthene	ug/L	.2	0.19	97	38-130	
Fluorene	ug/L	.2	0.17	84	27-130	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	90	48-130	
Naphthalene	ug/L	.2	0.19	94	33-130	

Date: 11/22/2011 03:38 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 10584.00 BYRNS OIL

Pace Project No.: 4053624

LABORATORY CONTROL SAMPLE: 535127

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	.2	0.18	91	28-130	
Pyrene	ug/L	.2	0.18	90	41-130	
2-Fluorobiphenyl (S)	%			81	27-130	
Terphenyl-d14 (S)	%			87	66-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 535128 535129

Parameter	Units	4053617014		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	MS Result	MSD Result				RPD	RPD	
1-Methylnaphthalene	ug/L	<0.047	.19	.19	.19	0.18	0.12	88	60	15-130	36	34	D6
2-Methylnaphthalene	ug/L	<0.047	.19	.19	.19	0.18	0.12	89	57	14-130	41	37	D6
Acenaphthene	ug/L	<0.047	.19	.19	.19	0.16	0.12	81	60	10-130	30	34	
Acenaphthylene	ug/L	<0.047	.19	.19	.19	0.15	0.11	79	59	10-130	29	32	
Anthracene	ug/L	<0.047	.19	.19	.19	0.12	0.11	61	57	10-130	7	39	
Benzo(a)anthracene	ug/L	<0.047	.19	.19	.19	0.15	0.15	78	80	34-131	2	21	
Benzo(a)pyrene	ug/L	<0.047	.19	.19	.19	0.17	0.18	88	97	35-130	10	24	
Benzo(b)fluoranthene	ug/L	<0.047	.19	.19	.19	0.15	0.15	80	80	17-154	.04	32	
Benzo(g,h,i)perylene	ug/L	<0.047	.19	.19	.19	0.17	0.17	91	89	42-130	2	25	
Benzo(k)fluoranthene	ug/L	<0.047	.19	.19	.19	0.19	0.21	102	107	41-144	5	26	
Chrysene	ug/L	<0.047	.19	.19	.19	0.21	0.23	111	121	47-134	8	21	
Dibenz(a,h)anthracene	ug/L	<0.047	.19	.19	.19	0.16	0.16	87	86	37-130	2	22	
Fluoranthene	ug/L	<0.047	.19	.19	.19	0.17	0.18	92	97	12-159	5	31	
Fluorene	ug/L	<0.047	.19	.19	.19	0.15	0.12	81	61	13-130	28	37	
Indeno(1,2,3-cd)pyrene	ug/L	<0.047	.19	.19	.19	0.17	0.17	90	89	27-134	1	25	
Naphthalene	ug/L	<0.047	.19	.19	.19	0.28	0.12	134	52	10-130	78	41	D6,M1
Phenanthrene	ug/L	<0.047	.19	.19	.19	0.16	0.14	82	74	12-130	11	32	
Pyrene	ug/L	<0.047	.19	.19	.19	0.16	0.15	87	82	12-161	6	33	
2-Fluorobiphenyl (S)	%							75	55	27-130			
Terphenyl-d14 (S)	%							87	89	66-140			



QUALITY CONTROL DATA

Project: 10584.00 BYRNS OIL
 Pace Project No.: 4053624

QC Batch: OEXT/13247 Analysis Method: EPA 8270 by SIM
 QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by SIM MSSV
 Associated Lab Samples: 4053624015

METHOD BLANK: 536225 Matrix: Water
 Associated Lab Samples: 4053624015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0053	0.050	11/18/11 11:50	
2-Methylnaphthalene	ug/L	<0.0041	0.050	11/18/11 11:50	
Acenaphthene	ug/L	<0.0048	0.050	11/18/11 11:50	
Acenaphthylene	ug/L	<0.0038	0.050	11/18/11 11:50	
Anthracene	ug/L	<0.0061	0.050	11/18/11 11:50	
Benzo(a)anthracene	ug/L	<0.0038	0.050	11/18/11 11:50	
Benzo(a)pyrene	ug/L	<0.0030	0.050	11/18/11 11:50	
Benzo(b)fluoranthene	ug/L	<0.0036	0.050	11/18/11 11:50	
Benzo(g,h,i)perylene	ug/L	<0.0051	0.050	11/18/11 11:50	
Benzo(k)fluoranthene	ug/L	<0.0046	0.050	11/18/11 11:50	
Chrysene	ug/L	<0.0037	0.050	11/18/11 11:50	
Dibenz(a,h)anthracene	ug/L	<0.0034	0.050	11/18/11 11:50	
Fluoranthene	ug/L	<0.0047	0.050	11/18/11 11:50	
Fluorene	ug/L	<0.0051	0.050	11/18/11 11:50	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0050	0.050	11/18/11 11:50	
Naphthalene	ug/L	<0.0051	0.050	11/18/11 11:50	
Phenanthrene	ug/L	<0.0086	0.050	11/18/11 11:50	
Pyrene	ug/L	<0.0050	0.050	11/18/11 11:50	
2-Fluorobiphenyl (S)	%	55	27-130	11/18/11 11:50	
Terphenyl-d14 (S)	%	86	66-140	11/18/11 11:50	

LABORATORY CONTROL SAMPLE & LCSD: 536226 536227

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1-Methylnaphthalene	ug/L	.2	0.16	0.13	78	63	32-130	21	50	
2-Methylnaphthalene	ug/L	.2	0.15	0.12	77	60	29-130	24	50	
Acenaphthene	ug/L	.2	0.16	0.12	79	61	30-130	25	49	
Acenaphthylene	ug/L	.2	0.15	0.12	76	60	23-130	24	48	
Anthracene	ug/L	.2	0.13	0.12	65	58	20-130	11	46	
Benzo(a)anthracene	ug/L	.2	0.17	0.17	87	87	34-130	.7	21	
Benzo(a)pyrene	ug/L	.2	0.18	0.19	90	97	41-130	7	20	
Benzo(b)fluoranthene	ug/L	.2	0.19	0.20	93	98	31-131	5	24	
Benzo(g,h,i)perylene	ug/L	.2	0.18	0.20	92	99	51-130	7	20	
Benzo(k)fluoranthene	ug/L	.2	0.20	0.22	102	109	56-130	7	23	
Chrysene	ug/L	.2	0.21	0.20	103	102	55-130	1	20	
Dibenz(a,h)anthracene	ug/L	.2	0.17	0.19	87	93	40-130	6	20	
Fluoranthene	ug/L	.2	0.18	0.15	91	74	38-130	20	40	
Fluorene	ug/L	.2	0.16	0.13	80	63	27-130	24	50	
Indeno(1,2,3-cd)pyrene	ug/L	.2	0.18	0.19	90	96	48-130	6	20	
Naphthalene	ug/L	.2	0.14	0.11	70	57	33-130	19	50	
Phenanthrene	ug/L	.2	0.17	0.14	87	70	28-130	22	47	

QUALITY CONTROL DATA

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

LABORATORY CONTROL SAMPLE & LCSD: 536226		536227								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Pyrene	ug/L	.2	0.19	0.16	93	79	41-130	17	40	
2-Fluorobiphenyl (S)	%				72	54	27-130			
Terphenyl-d14 (S)	%				88	76	66-140			

QUALIFIERS

Project: 10584.00 BYRNS OIL
Pace Project No.: 4053624

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

BATCH QUALIFIERS

Batch: GCV/7611

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSSV/4076

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 8270C. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.

Batch: MSSV/4081

[IP] Benzo(b)fluoranthene and benzo(k)fluoranthene were separated in the check standard but did not meet the resolution criteria in SW846 8270C. Sample results included are reported as individual isomers, but the lab and the client must recognize them as an isomeric pair.

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.

(Please Print Clearly)

Company Name: Seymour Environ.
 Branch/Location: McFarland
 Project Contact: Robyn Seymour
 Phone: 608-838-9120
 Project Number: Byrns 10584.00
 Project Name: Byrns Oil
 Project State: WI
 Sampled By (Print): Mark R. Seymour
 Sampled By (Sign): [Signature]
 PO #: _____ Regulatory Program: _____



UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

Page 1 of 2
 4053624

CHAIN OF CUSTODY

***Preservation Codes**
 A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Y/N	P	N																
Filtered? (YES/NO)																		
Preservation (CODE)*	B	A																
Analysis Requested	PVOC	PAH																

Quote #: _____
 Mail To Contact: Robyn Seymour
 Mail To Company: Seymour Environ
 Mail To Address: 2531 Dymason Rd
McFarland, WI 53558
 Invoice To Contact: _____
 Invoice To Company: _____
 Invoice To Address: _____
 Invoice To Phone: _____

Data Package Options (billable)
 EPA Level III
 EPA Level IV

MS/MSD
 On your sample (billable)
 NOT needed on your sample

Matrix Codes
 A = Air W = Water
 B = Blots DW = Drinking Water
 C = Charcoal GW = Ground Water
 O = Oil SW = Surface Water
 S = Soil WW = Waste Water
 SI = Sludge WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	Analysis Requested	P	N													CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #	
		DATE	TIME																				
001	MW-10	11/10/11	12:50	GW		X	X																
002	MW-7		14:50	GW		X	X																
003	MW-2		13:10	GW		X	X																
004	MW-10		13:20	GW		X	X																
005	MW-13		13:35	GW		X	X																
006	MW-12		14:00	GW		X	X																
007	MW-14		13:45	GW		X	X																
008	MW-11		14:28	GW		X	X																
009	MW-3		14:40	GW		X	X																
010	MW-17		15:40	GW		X	X																
011	MW-16R		15:50	GW		X	X																
012	Sump-1	11/11/11	10:00	GW		X	X																
013	Sump-3	11/11/11	10:10	GW		X	X																

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed: _____

Transmit Prelim Rush Results by (complete what you want): _____

Relinquished By: <u>Mark R. Seymour</u>	Date/Time: <u>11/14/11 pm</u>	Received By: <u>Dunham</u>	Date/Time: _____
Relinquished By: <u>Dunham</u>	Date/Time: <u>11/15/11 10:09</u>	Received By: <u>E. Helling Pace</u>	Date/Time: <u>11/15/11 10:09</u>
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____
Relinquished By: _____	Date/Time: _____	Received By: _____	Date/Time: _____

Email #1: _____
 Email #2: _____
 Telephone: _____
 Fax: _____

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 4053624
 Receipt Temp = ROI °C
 Sample Receipt pH OK / Adjusted
 Cooler Custody Seal Present / (Not Present) Intact / Not Intact

Attachment D
Environmental Assessment Documentation
Former RP Parcel at 204 S. Ingersoll

WisDOT Phase 1 Hazardous Materials Assessment Site Summary
(rev. 10/7/2005)

WisDOT Project ID: 5992-01-95
Highway/Street: Proposed Central Park
Termini/Limits: Brearly Street to Baldwin Street, City of Madison
County: Dane

Property Information:

Site Name(s): 204 S. Ingersoll Street (former RP parcel)
DOT parcel number (if known):
Property Address: 204 S. Ingersoll Street
Owner's Name: City of Madison (previously Research Products Corporation)
Owner's Address: 215 Martin Luther King Blvd., Madison, WI 53701
Owner's Phone:
Current Land Use: vacant, property purchased and buildings demolished in late 2011
Past Land Use: vacant, railroad crossing, manufacturing and warehouse

Real Estate Requirements: City of Madison has purchased this property

- None Total take Strip acquisition of _____ feet
 Temporary Limited Easement (TLE)
 Permanent Limited Easement (PLE)
 Other (describe)

Construction Requirements:

- Excavation within current right of way to up to 5 feet
 Excavation within proposed right of way to _____ feet
 Excavation within easement to _____ feet
 Public or private utility or sanitary or storm sewer installation or excavation to up to 5 feet

Information from database searches and interviews:

Department of Commerce (DCOMM)

- site has registered tanks ASTs USTs
 tanks are currently in use
 tanks are abandoned date:

Tank contents:

- Leaded gasoline Unleaded gasoline Fuel Oil Diesel
 Kerosene Unknown Other (describe)
 site is a DCOMM administered LUST site; DCOMM ID number:
 site is a closed DCOMM LUST site; closure date:

Department of Natural Resources (DNR)

- site is a DNR administered LUST site; BRRTS number:
 site is a DNR administered ERP site; BRRTS number:
 site is a closed LUST ERP site; closure date:
 site is a landfill
 site is an abandoned waste disposal site
 site is a hazardous waste generator
 Other (please describe)

Sanborn Maps: site is a _____ on map dated _____ . Comments:

WisDOT historic plan sets: site is a _____ on project _____ dated _____ . Comments:

Business directories: site is a _____ in the directory dated _____ . Comments:

Aerial photos: site is a _____ on photo dated _____. Comments:
 Contamination discovered at _____ feet during utility or other excavation in the area. Indicate location on site map.
Interview Information or other comments:

Visual Evidence of Potential Contamination: (include additional information in space provided)

- No evidence of tanks
- USTs ASTs Location, number and condition of tanks, contents, comments:
Location in relationship to current right of way: map attached
Location in relationship to proposed right of way: map attached
- Drums Stained soils Odor Sheen on surface water Areas of excavation
- Areas of fill Stressed vegetation Pond(s) Basins/sumps Monitoring wells
- Soil borings

Comments: A Phase 2 Subsurface Investigation detected groundwater and soil contamination in some locations of the property

Potential for Contaminant Migration: (attach supporting documentation such as plume maps, summaries of site investigation or closure reports).

- Property is a potential source of contamination
- Adjacent property is a potential source of contamination. Include site name or BRRTS number if known, describe location, include contaminant type and any additional information. Petroleum and PAH at 1023 E Main, BRRTS 02-13-215729
- Contaminated soil known to be within proposed right of way from _____ feet to _____ feet below ground surface
- Contaminated groundwater known to be within proposed right of way at _____ feet below ground surface.
- Contaminated soil or groundwater within existing right of way. Attach copy of most recent investigation and plume maps.

Attachments – required

- Site photographs and a site map showing areas of concern
- Plat map showing parcel and any proposed areas of acquisition or easement
- Historic aerial photos of site - clearly outline site
- Historic WisDOT or other as-builts and plat maps - clearly outline site
- Plume maps for known contamination. Indicate existing or proposed right of way where applicable.

Recommendations: A Phase 2 ESA was performed in July 2011. Special provisions will be written and provided at the time final plans are developed.

- No additional hazardous materials investigation is required.
- If construction or real estate requirements change, evaluation of need for further investigation will be necessary.
- Information is sufficient to use Standard Special Provisions. Copy of completed Standard Special Provision is attached.
- Conduct additional investigation
 - Phase 2 (determine if contamination is present)
 - Phase 2.5 (determine extent of contamination within existing RWV only)
 - Phase 3 (determine full extent of contamination prior to acquisition)
 - Phase 4 (remediate site)
 - Other (describe)

Prepared by: MSA Professional Services, Inc. on 2/9/2012

Recommendations accepted by (name and title): _____, on _____

Signature: _____

A check in a checkbox indicates a positive or "yes" response.

LEGEND

B-1 ● SOIL BORING LOCATION

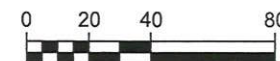
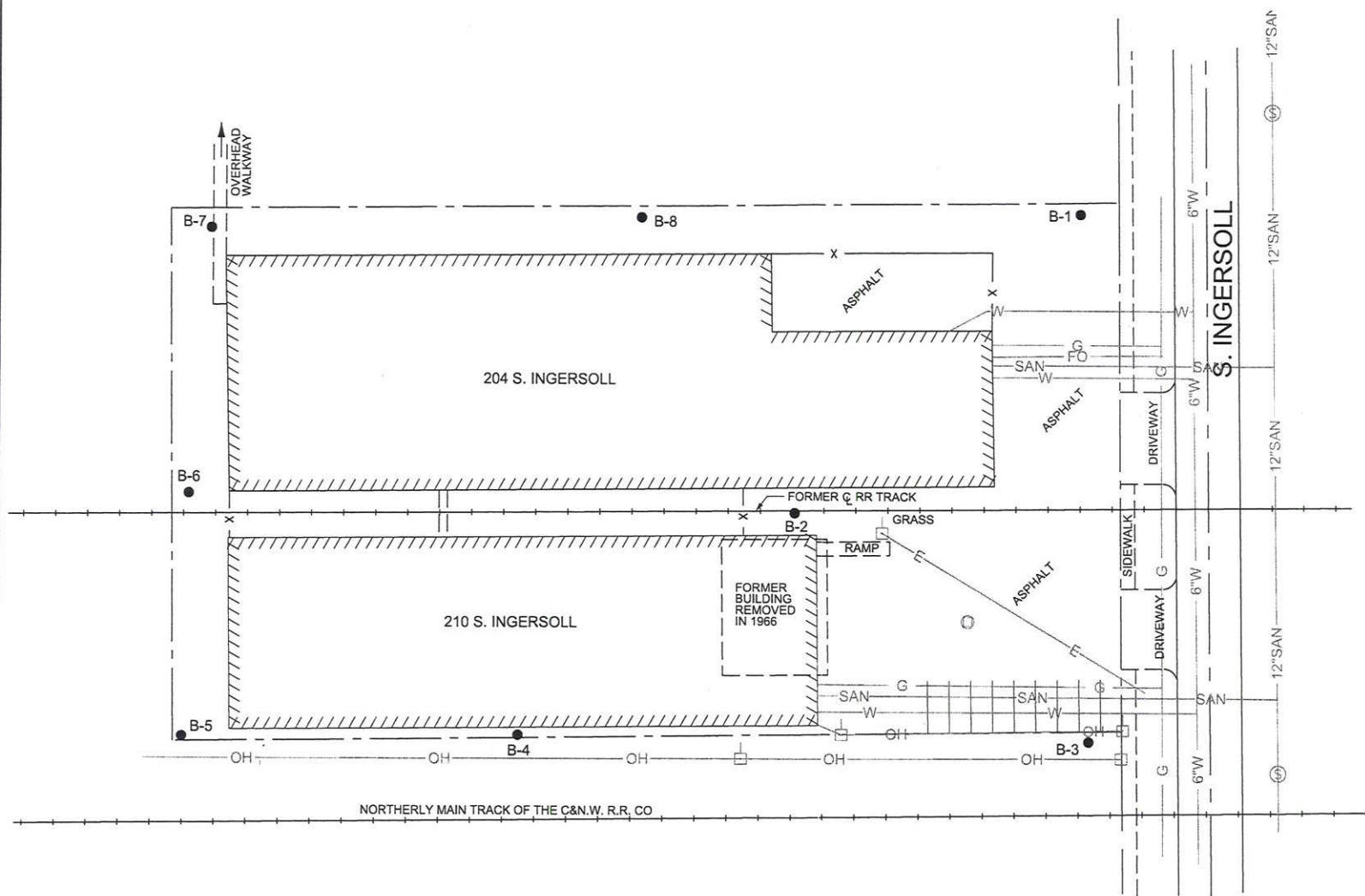


FIGURE 2

SOIL BORING LOCATION

RESEARCH PRODUCTS CORPORATION
204 & 210 S. INGERSOLL, MADISON, WI

MSA
 TRANSPORTATION • MUNICIPAL
 DEVELOPMENT • ENVIRONMENTAL
 1525 N. Duane Street, Wauwatosa, WI 53091
 715-362-1244 1-800-844-7654 Fax: 715-362-4116
 Web Address: www.msa-gp.com

DRAWN BY	CAR	DATE	7/11	SHEET	K of X
CHECKED BY	JE	SCALE	AS SHOWN	FILE NO.	373037F2b

Phase 2 soil borings July 2011

Table 1 - Soil Analytical Results

Research Products Co., 204/210 S. Ingersoll St., Madison, WI

(all concentrations are in mg/kg)

Sample Location	B-1	B-2	B-3	B-4	B-5	B-5	B-6	B-6	B-7	B-8	DNR Publication RR-519-97 Direct contact	DNR Publication RR-519-97 Direct Contact	DNR Publication RR-519-97 Groundwater	EPA Website Direct Contact	NR 720 Table 1	NR 720.11 Table 2	NR 720.11 Table 2
Sample Depth	0-1.5 ft	3-4 ft	2-4 ft	2-4 ft	2-4 ft	6-8 ft	2-4 ft	6-8 ft	2-4 ft	2-4 ft	Industrial	Non-industrial	Groundwater	Ind./Non-ind.	Groundwater	Industrial	Non-industrial
Volatle Organic Compounds by SW8260B																	
sec-butylbenzene	<0.027	<0.029	<0.028	<0.031	<0.029	0.87	<0.030	<0.030	<0.029	<0.028							
ethylbenzene	<0.027	<0.029	<0.028	<0.031	<0.029	0.19	<0.030	<0.030	<0.029	<0.028							
isopropylbenzene	<0.027	<0.029	<0.028	<0.031	<0.029	0.51	<0.030	<0.030	<0.029	<0.028					2.9		
p-isopropyltoluene	<0.027	<0.029	<0.028	<0.031	<0.029	0.42	<0.030	<0.030	<0.029	<0.028							
naphthalene	0.28	<0.059	<0.057	<0.062	<0.057	0.23	<0.061	<0.060	0.057	<0.055							
n-propylbenzene	<0.027	<0.029	<0.028	<0.031	<0.029	2.20	<0.030	<0.030	<0.029	<0.028							
toluene	0.041	<0.029	<0.028	<0.031	<0.029	<0.030	0.032	<0.030	0.032	<0.028					1.5		
trichloroethylene	<0.027	<0.029	0.051	0.049	<0.029	0.040	<0.030	<0.030	<0.029	<0.028			0.17/0.014				
1,2,4-trimethylbenzene	0.041	<0.029	<0.028	<0.031	<0.029	3.5	0.035	<0.030	0.029	<0.028							
1,3,5-trimethylbenzene	<0.027	<0.029	<0.028	<0.031	<0.029	<0.030	<0.030	<0.030	0.030	<0.028							
xylene, total	0.091	<0.088	<0.085	<0.093	<0.086	0.37	<0.091	<0.089	<0.086	<0.083					4.1		
Polynuclear Aromatic Hydrocarbons by 8270C																	
acenaphthene	0.53	<0.0080	0.013	0.014	0.011	0.11	0.025	<0.0078	<0.0079	<0.0072	60000	900	38				
acenaphthylene	0.050	<0.0059	0.018	0.015	0.014	<0.0059	<0.0062	<0.0058	<0.0059	<0.0054	360	18	0.7				
dibenzo(a,h)anthracene	1.4	<0.0097	0.10	0.074	0.042	<0.0095	0.048	<0.0094	0.019	<0.0087	0.39	0.0088	38				
fluorene	0.68	<0.0073	0.021	0.017	0.011	0.18	0.020	<0.0071	<0.0072	<0.006	40000	600	100				
naphthalene	0.35	<0.0069	0.023	0.044	0.055	0.29	0.062	<0.0068	0.045	0.037	110	20	0.4				
2-methylnaphthalene	0.23	<0.015	0.028	0.067	0.088	1.2	0.20	<0.015	0.12	0.064	40000	600	20				
1-methylnaphthalene	0.24	<0.010	0.030	0.061	0.083	1.1	0.24	<0.0098	0.12	0.071	70000	1100	23				
anthracene	2.3	<0.0070	0.059	0.050	0.034	0.13	0.079	<0.0068	0.012	0.0069	300000	5000	3000				
benzo(a)anthracene	5.6	0.013	0.37	0.23	0.19	0.023	0.18	<0.0080	0.050	0.015	3.9	0.088	17				
benzo(a)pyrene	5.5	0.014	0.30	0.21	0.18	0.014	0.13	<0.0072	0.039	0.012	0.39	0.0088	48				
benzo(b)fluoranthene	4.9	0.020	0.36	0.28	0.26	0.014	0.16	<0.0077	0.060	0.020	3.9	0.088	360				
benzo(g,h,i)perylene	4.2	0.017	0.24	0.19	0.17	0.014	0.13	<0.0091	0.056	0.018	39	1.8	6800				
benzo(k)fluoranthene	4.8	<0.0090	0.23	0.17	0.11	<0.0088	0.096	<0.0088	0.039	0.013	39	0.88	870				
chrysene	5.8	0.015	0.34	0.28	0.24	0.033	0.19	<0.012	0.061	0.025	390	8.8	37				
fluoranthene	15	0.025	0.63	0.37	0.28	0.038	0.26	<0.0070	0.067	0.024	40000	600	500				
indeno(1,2,3-cd)pyrene	3.7	0.015	0.22	0.16	0.14	0.014	0.11	<0.0095	0.044	0.016	3.9	0.088	680				
phenanthrene	9.7	0.016	0.33	0.36	0.26	0.76	0.65	<0.0073	0.16	0.076	390	18	1.8				
pyrene	11	0.024	0.61	0.46	0.37	0.091	0.30	<0.013	0.077	0.028	30000	500	8700				
Metals by 6010B																	
arsenic	4.1	1.0	4.3	6.4	6.7	1.2	2.0	4.5	4.0	2.7					1.6	0.039	
cadmium	0.98	0.33	0.48	1.2	1.6	0.25	2.2	0.31	0.76	0.62					510	8	
chromium	5.9	4.6	11	9.0	9.1	9.4	7.8	8.8	5.1	4.1				200(hex)	14(hex)		
lead	59	2.8	74	180	660	5.7	60	4.7	130	37				500	50		

Only compounds with at least one detection are included in the table. For a full list of compounds analyzed, please see the laboratory report from Test America.

NR 720.11 Table 2 - Residual Contaminant Levels Based on Human Health Risk from Direct Contact Related to Land Use

Values in BOLD indicate an exceedance of one of the listed industrial direct contact standards

EPA Website used to calculate trichloroethylene direct contact residual contaminant concentrations: <http://rais.onrl.gov/cgi-bin/epa/ssi2.cgi>

Input data for EPA Website calculation were Wisconsin Default values from DNR Publication RR-682, January 2002

Table 2 - Groundwater Analytical Results

Research Products Co., 204/210 S. Ingersoll St., Madison, WI

(all concentrations are in ug/L)

Sample Location	B-1	B-2	B-3	B-5	B-6	Wisconsin Administrative	Wisconsin Administrative
						Code NR 140	Code NR 140
						Table 1	Table 1
						Enforcement Standard	Preventive Action Limit
Volatile Organic Compounds by SW8260B							
sec-butylbenzene	<0.25	<0.25	<0.25	4.0	<0.25		
ethylbenzene	<0.50	<0.50	<0.50	28	<0.50	700	140
isopropylbenzene	<0.20	<0.20	<0.20	9.4	<0.20		
p-isopropyltoluene	<0.20	<0.20	<0.20	2.1	<0.20		
naphthalene	0.61	<0.25	<0.25	8.7	<0.25	100	10
n-propylbenzene	<0.50	<0.50	<0.50	29	<0.50		
toluene	<0.50	0.64	<0.50	0.61	<0.50	800	160
trichloroethylene	<0.20	<0.20	<0.20	<0.20	<0.20	5	0.5
1,2,4-trimethylbenzene	<0.20	<0.20	<0.20	95	<0.20	480*	96*
1,3,5-trimethylbenzene	<0.20	<0.20	<0.20	0.48	<0.20	480*	96*
xylenes, total	<0.50	<0.50	<0.50	31	<0.50	2000	400
Polynuclear Aromatic Hydrocarbons by 8270C							
acenaphthene	0.39	<0.099	<0.095	1.8			
acenaphthylene	<0.12	<0.11	<0.10	0.92			
dibenzo(a,h)anthracene	0.77	<0.13	0.23	0.26			
fluorene	0.38	<0.13	<0.13	3.0		400	80
naphthalene	0.36	<0.15	<0.15	3.6		100	10
2-methylnaphthalene	<0.19	<0.16	<0.16	4.0			
1-methylnaphthalene	<1.2	<1.1	<1.0	9.2			
anthracene	1.0	<0.13	<0.13	0.530		3000	600
benzo(a)anthracene	3.0	<0.059	0.22	<0.064			
benzo(a)pyrene	2.3	<0.049	0.30	<0.054		0.2	0.02
benzo(b)fluoranthene	3.4	<0.075	0.29	<0.082		0.2	0.02
benzo(g,h,i)perylene	1.6	<0.12	0.33	0.25			
benzo(k)fluoranthene	1.2	<0.10	0.12	<0.11			
chrysene	2.8	<0.12	0.22	<0.13		0.2	0.02
fluoranthene	6.8	<0.11	0.38	0.39		400	80
indeno(1,2,3-cd)pyrene	1.5	<0.072	0.27	<0.079			
phenanthrene	4.6	<0.085	0.20	7.2			
pyrene	5.4	<0.10	0.36	0.79		250	50
Metals by 6010B							
arsenic	2.1	1.3	0.42	3.3		10	1
cadmium	<0.12	<0.12	<0.12	<0.12		5	0.5
chromium	0.9	<0.59	<0.59	<0.59		100	10
lead	0.22	<0.13	0.14	0.2		15	1.5

* = standard is for total trimethylbenzenes

Only compounds with at least one detection are included in the table. For a full list of compounds analyzed, please see the laboratory report from Test America.

Values in italics exceed NR 140 preventive action limit.

Values in BOLD exceed NR 140 enforcement standard.

Attachment E
Photo Documentation

Phase 1 Haz Materials Assessment, Great Lawn Block
Proposed Central Park, South Ingersoll Street, Madison, WI



PC030001 Looking northeast at current park area from the gravel parking lot adjacent to South Ingersoll Street. The current park is primarily mowed grass areas.



PC030002 Looking southwest from the current park gravel parking lot at the adjacent property at 204 South Ingersoll (Research Products Corporation) located across South Ingersoll.



PC030003 Looking north along northern park property boundary and City of Madison Bus Barn parcel and the Madison Gas and Electric parcel with covered above ground fuel storage tanks in photo center-left.



PC030004 Looking southwest toward Central Park Apartments located on adjacent property to the south of the parking lot and south of East Wilson Street.



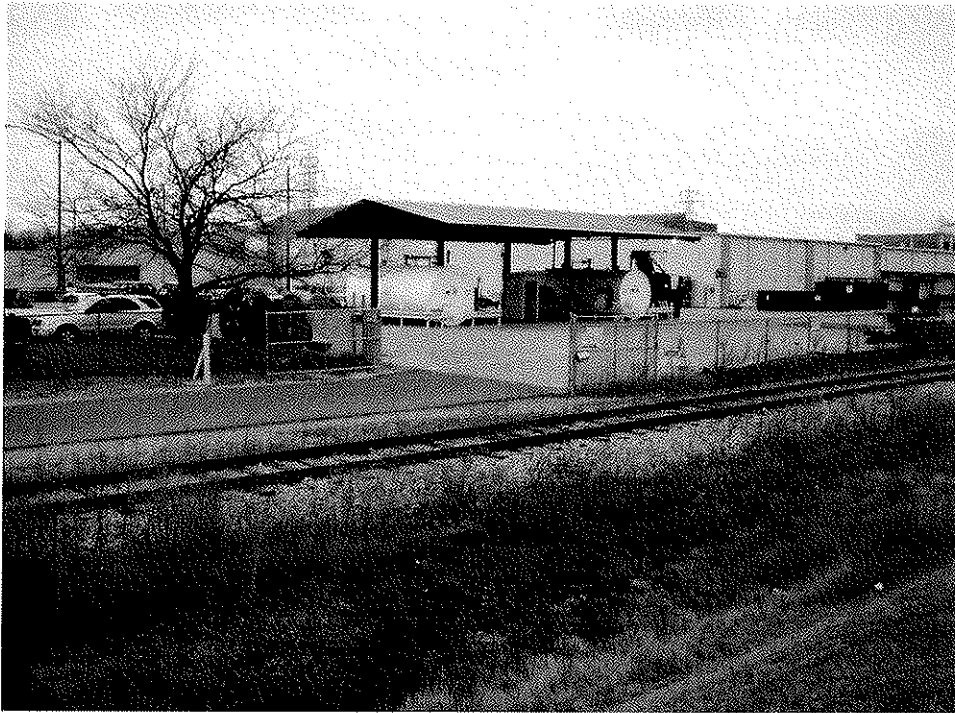
PC030005 Looking northwest along north park property boundary, with park in photo right. Shows existing railroad track and access road from South Ingersoll Street to adjacent MG & E parcel.



PC030006 Looking southeast along west park property boundary and along South Ingersoll Street. Existing park parking lot and Central Park Apartments in photo left.



PC030007 Looking northwest along north park property boundary showing ditch between railroad tracks and park surface, access road, and covered above ground storage tanks in photo left.



PC030008 Looking west from park property toward MG& E parcel and covered above ground fuel storage tanks.



PC030009 Looking northwest from park property toward MG& E parcel and coiled cable and electric equipment storage on adjacent parcel to the north of the park.



PC030010 Looking east from the eastern section of the park property toward self-storage building on adjacent parcel located east of South Few Street and north of East Wilson Street.



PC030011 Looking south across park property toward South Ingersoll Street.



PC030012 Looking southeast across park property toward adjacent parcels on East Wilson Street and cell tower location.



PC030013 Looking east toward Baldwin Street and eastern park property with adjacent railroad tracks.



PC030014 Looking northwest at soil and rubble pile on park surface in eastern park property area.



PC030015 Looking west toward adjacent property (MG& E) with electrical equipment storage adjacent to park parcel.



PC030016 Looking southwest across park property from the eastern section of the property.



PC030017 Looking southwest across park property from the eastern section of the property at railroad tracks and overhead electric along south property boundary.



PC030019 Looking east toward Baldwin Street and eastern park property with adjacent railroad tracks and railroad facilities adjacent to park property.



PC030021 Looking north from park property toward Baldwin Street and and closeup of Wisconsin and Southern railroad facilities adjacent to park property.



PC030022 Looking southwest toward park property from railroad corridor adjacent to south park property and self storage building in photo left. toward Baldwin Street and and closeup of Wisconsin and Southern railroad facilities adjacent to park property.



PC030023 Looking southwest along southern boundary of park property toward East Wilson Street and showing railroad track and location of cell tower in photo left.



PC030024 Looking west across park surface from southern section of the park near East Wilson Street.



PC030027 Looking southeast from park toward adjacent cell tower facility between railroad tracks and E Wilson Street and south of park.

Project 373038. Phase 1 Haz Mat, Proposed Central Park, Madison, WI, Brearly Block
Photos taken July 27, 2011



P1010001 Looking east at 211 S Brearly Street (former Byrns Property) which has a former petroleum bulk plant with existing petroleum contamination. The railroad track and E Wilson Street bike path are in the photo right.



P1010002 Looking north at 211-255 S Brearly Street (former Byrns Property, a former petroleum bulk plant property) and the adjacent property to the north is 1011 E. Main Street, Research Products Corporation parcel and factory. A vacant parcel (255 S Brearly) separates the 211-215 S Brearly parcel from the 1011 E Main parcel and is near the tree line.



P1010003 Looking northeast from S Brearly Street across 211 S Brearly Street (Byrns Property) and showing the Research Products buildings at 204 and 210 S Ingersoll Street.



P1010004 Looking northeast toward Ingersoll Street near the 205 S Brearly parcel and the adjacent railroad track southeast of the former Byrns Oil property. The buildings are the Research Products buildings at 204 and 210 S Ingersoll Street.



P1010005 Looking north toward Ingersoll Street from the railroad track parcel southeast of the former Byrns Oil property. The buildings are the Research Products buildings at 204 and 210 S Ingersoll Street.



P1010006 Looking northwest from S Brearly Street (and former Byrns property) and the railroad tracks toward the 1011 E. Main Street, Research Products Corporation parcel and factory.



P1010007 Looking north toward 204 Ingersoll Street and 1011 E Main Street from the the former Byrns Oil property at 215 S Brearly Street. The building in the photo right is the Research Products buildings at 204 S Ingersoll Street.



P1010008 Looking northeast toward Ingersoll Street from the southeast corner of 204 S Ingersoll Street. The building is the Research Products building at 204 and 210 S Ingersoll Street.



P1010009 Looking northwest toward E Main Street parcels from the southeast corner of 204 S Ingersoll Street. Showing the back of the Research Products buildings at 204 and 210 S Ingersoll Street adjacent to 215 S Brearly Street.



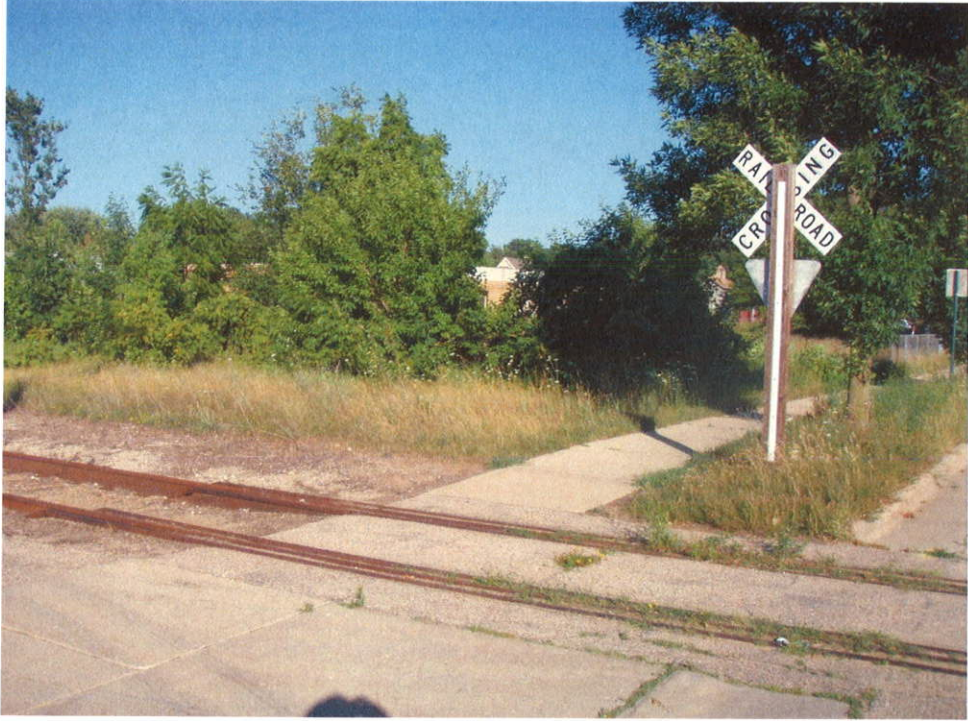
P1010010 Looking southwest toward S Brearly Street parcels from the railroad tracks adjacent to 204 S Ingersoll Street. Showing the adjacent parcel at 205 S Brearly Street and the adjacent bike/pedestrian path.



P1010011 Looking northeast toward S Ingersoll Street from the railroad tracks adjacent to Research Products at 204 S Ingersoll Street. Showing the adjacent parcels, the adjacent bike/pedestrian path, and East Wilson Street.



P1010012 Looking northeast toward Ingersoll Street from the southwest corner of 255 S Brearly Street. The building is the Research Products building at 1011 and 1023 E Main Street.



P1010013 Looking east toward 255 S Brearly Street parcel and the former Byrns Oil parcel from the railroad tracks west of 255 S Brearly.



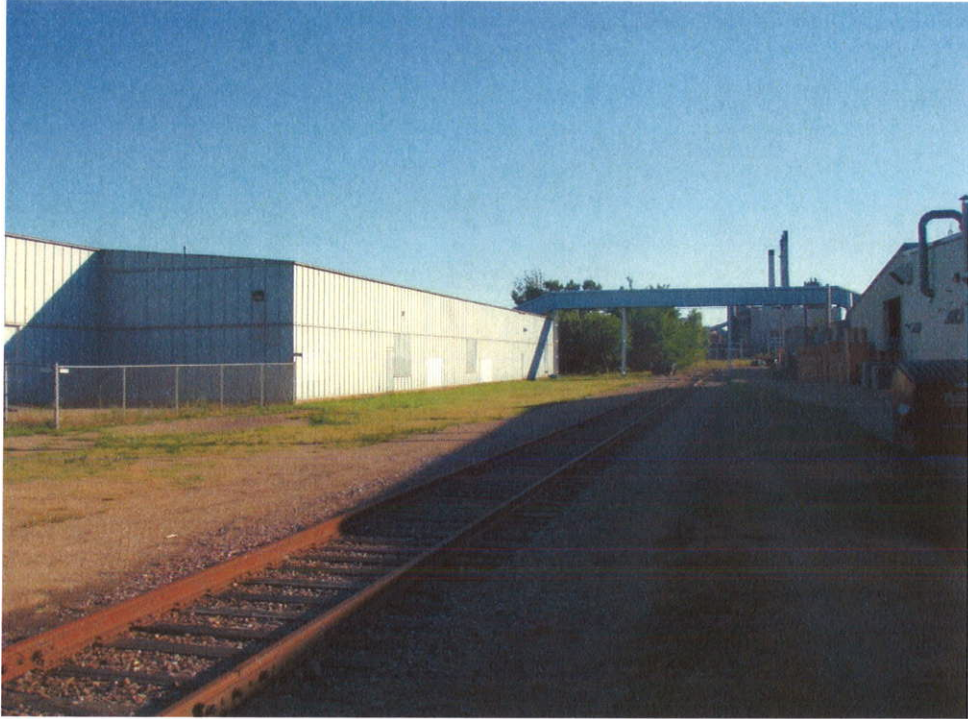
P1010014 Looking northeast toward 255 S Brearly Street parcel and 204 S Ingersoll parcel from the railroad tracks next to 1011 E Main Street.



P1010015 Looking southeast along S Brearly Street from the railroad tracks intersection and toward the 1011 E. Wilson Street and the bike path.



P1010016 Looking east across former Bryn Oil property and site investigation waste drum on the property.



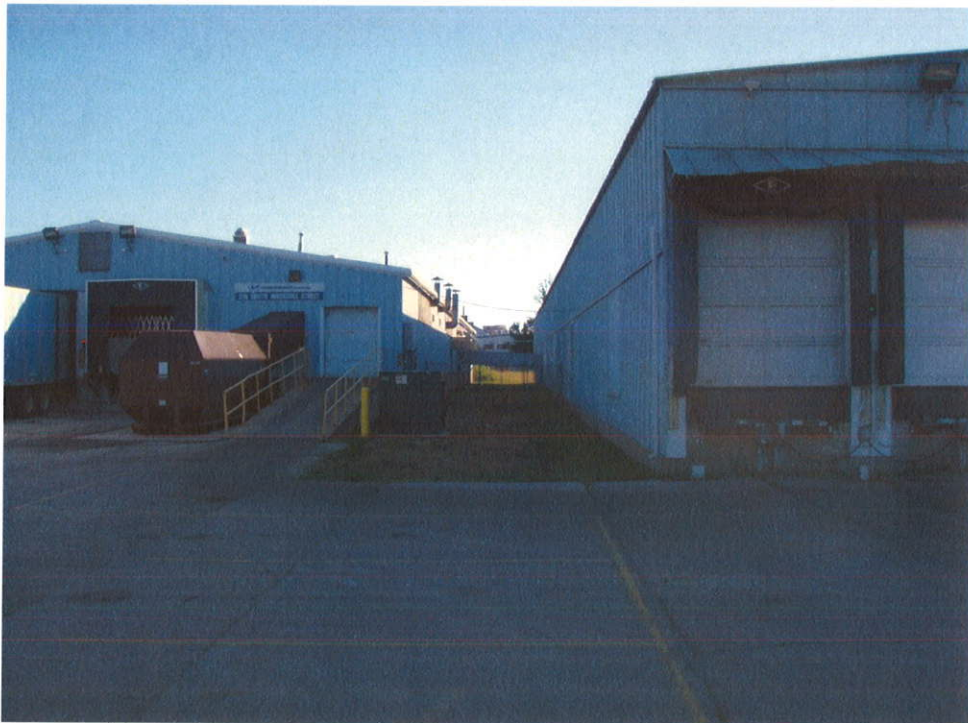
P1010018 Looking southwest from 204 S Ingersoll Street at the west side of the Research Products building and the railroad tracks separating the parcel with 1023 E Main Street parcel.



P1010019 Looking southeast along S Ingersoll Street and the Research Products building at 204 S Ingersoll Street, north side of the building.



P1010020 Looking northeast toward the Great Lawn parcel at 201 S Ingersoll Street from the corner of 204 S Ingersoll Street and the railroad track intersection.



P1010021 Looking southwest toward the Research Products buildings at 204 S Ingersoll Street.



P1010022 Looking southwest toward the Research Products buildings at 204 S Ingersoll Street and the adjacent railroad track parcel at 205 S Brearly Street.



P1010023 Looking northeast toward the Great Lawn parcel at 201 S Ingersoll Street from the southeast corner of 204 S Ingersoll Street near the railroad track intersection.



P1010024 Looking southwest toward S Brearly Street parcels from the railroad tracks adjacent to 204 S Ingersoll Street. Showing the adjacent parcel at 205 S Brearly Street and the adjacent bike/pedestrian path.