GIS REGISTRY
Cover Sheet

August 2011
(RR-5367)

Source Property Information

CLOSURE DATE: Oct 24, 2011

BRRTS #: **02-65-543865**

FID #: 265117490

ACTIVITY NAME: THELEN SAND AND GRAVEL - LANGE ROAD PIT

DATCP #:

PROPERTY ADDRESS: N191 Lange Rd

PECFA#: 53128193091

MUNICIPALITY: Bloomfield

PARCEL ID #: MB3200003 and MB3300005

***WTM COORDINATES:**

X: **653058** Y: **226159**

** Coordinates are in WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- (●) Approximate Center Of Contaminant Source
- ( ) Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

- [x] Groundwater Contamination > ES *(236)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property" form)*

- [x] Soil Contamination > *RCL or **SSRCL *(232)*
  - [ ] Contamination in ROW
  - [ ] Off-Source Contamination

  (***note:*** *for list of off-source properties see "Impacted Off-Source Property" form)*

Land Use Controls:

- [ ] N/A (*Not Applicable*)
- [ ] Soil: maintain industrial zoning *(220)*

  (***note:*** *soil contamination concentrations between non-industrial and industrial levels)*
- [ ] Structural Impediment *(224)*
- [ ] Site Specific Condition *(228)*
- [x] Cover or Barrier *(222)*

  (***note:*** *maintenance plan for groundwater or direct contact)*
- [ ] Vapor Mitigation *(226)*
- [ ] Maintain Liability Exemption *(230)*

  (***note:*** *local government unit or economic development corporation was directed to take a response action)*

Monitoring Wells:

Are all monitoring wells properly abandoned per NR 141? *(234)*

(●) Yes ( ) No ( ) N/A

** Residual Contaminant Level*
***Site Specific Residual Contaminant Level*

State of Wisconsin Department of Natural Resources http://dnr.wi.gov	**GIS Registry Checklist** Form 4400-245 (R 4/08) Page 1 of 3

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: 02-65-543865 PARCEL ID #: MB3200003 & MB3300005

ACTIVITY NAME: Thelen Sand & Gravel - Lange Road Pit WTM COORDINATES: X: 653058 Y: 226159

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- [x] **Closure Letter**
- [x] **Maintenance Plan** *(if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)*
- [x] **Conditional Closure Letter**
- [ ] **Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- [x] **Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
  Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*
- [x] **Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map *for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map.* (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

  Figure #: **Title:**
- [x] **Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(b))

Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.

- [x] **Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
  Note: *Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.*

  Figure #: 1 **Title: Site Location Map**
- [x] **Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 2 and 2a **Title: Site Aerial Photograph & Project Area Aerial Photograph**
- [x] **Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL)as determined under s. NR 720.09, 720.11 and 720.19.

  Figure #: 3 **Title: Soil Boring Location, Sample Results & Isoconcentration Map**

BRRTS #: 02-65-543865 ACTIVITY NAME: Thelen Sand & Gravel - Lange Road Pit

MAPS (continued)

☒ **Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: 3a **Title: Geologic Cross Section A-A' and B-B' Plan View Map**

Figure #: 3b & 3c **Title: Geologic Cross Section A-A' Profile & Geologic Cross Section B-B' Profile**

☒ **Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.
Note: *This is intended to show the total area of contaminated groundwater.*

Figure #: 4 **Title: Groundwater Sample Results, Isoconcentration & Flow Direction Map**

☒ **Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more then 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 4 **Title: Groundwater Sample Results, Isoconcentration & Flow Direction Map**

Figure #: 5 - 7 **Title: Groundwater Elevation Data & Flow Direction Map - 08/24/2009, 11/18/2009, 07/21/2010**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

☒ **Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: ~~1~~ 2 **Title: Soil Sample Analytical Results**

☒ **Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: ~~2~~ 3 **Title: Groundwater Sample Analytical Results**

☒ **Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: ~~2~~ 3 **Title: Groundwater Sample Analytical Results**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.
Note: *If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.*

☒ **Not Applicable**

☐ **Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.
Note: *If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.*

Figure #: **Title:**

☐ **Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

☐ **Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

☐ **Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 02-65-543865 ACTIVITY NAME: Thelen Sand & Gravel - Lange Road Pit

NOTIFICATIONS

Source Property

☐ **Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

☐ **Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: *Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.*

Number of "Off-Source" Letters:

☐ **Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.

☐ **Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies).** This does not apply to right-of-ways.
Note: *If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.*

☐ **Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Scott Walker, Governor
Cathy Stepp, Secretary
Lloyd L. Eagan, Regional Director
Telephone 608-275-3266
FAX 608-275-3338
TTY Access via relay - 711

WISCONSIN
DEPT. OF NATURAL RESOURCES

October 24, 2011

Mr. Chad Taylor
Thelen Sand & Gravel, Inc.
28955 W. Route 173
Antioch IL 600022

SUBJECT: Final Case Closure with Continuing Obligations
Thelen Sand & Gravel, Inc. Genoa City, Wisconsin
WDNR BRRTS Activity # 02-65-543865

Dear Mr. Taylor:

On January 11, 2011, the DNR South Central Region's 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. The Department reviewed the case closure request regarding the petroleum contamination in soil and groundwater at the site. The case was conditionally closed, pending abandonment of the monitoring wells and completion of the GIS registry package. On October 24, 2001, the Department received information and documentation complying with the requirements for final closure.

Based on the correspondence and data provided, it appears that your case meets the closure requirements in ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations explained in this letter.

GIS Registry
This site will be listed on the Remediation and Redevelopment Program's internet-accessible GIS Registry, to provide notice of the residual contamination and the continuing obligations. The continuing obligations for this site are:

- Residual soil contamination must be properly managed should it be excavated or removed
- A cover must be maintained over contaminated soil
- Groundwater contamination is present above Chapter NR 140 enforcement standards

All site information is on file at the South Central Regional DNR office in Fitchburg. This letter and information that was submitted with your closure request application, including the attached April 15, 2009, Engineered Cap Maintenance Plan (the maintenance plan), will be included on the GIS Registry, in a PDF attachment. To review the sites on the GIS Registry web page, visit the RR Sites Map page at http://dnr.wi.gov/org/aw/rr/gis/index.htm.

The property is listed on the GIS Registry because of remaining contamination. If you intend to construct or reconstruct a water supply well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To request 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 at http://dnr.wi.gov/org/water/dwg/3300254.pdf.

Closure Conditions

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. You and all future property owners must pass on this letter, the information about these continuing obligations, and the engineered cap maintenance plan to the next property owner(s). If this requirement or the continuing obligations 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. The Department intends to conduct inspections in the future to ensure that the conditions included in this letter are met.

Residual Soil Contamination

Residual soil contamination remains near the former fuel tank, as indicated on the attached map titled, "Exhibit A - Soil and Groundwater Contaminant Plume & Area of Cap Maintenance Plan" and in the information submitted to the Department of Natural Resources. If soil in the locations described above is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner must sample and analyze the excavated soil to determine if residual contamination remains. If sampling confirms that contamination is present the property owner will need to determine whether the material is considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards 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 to prevent a direct contact health threat to humans.

Cap/Cover

Pursuant to s. 292.12(2)(a), Wis. Stats., the cap composed of the hard packed traffic bond surface that currently exists at the location shown in the attached "Engineered Cap Maintenance Plan April 15, 2009" shall be maintained in compliance with the maintenance plan in order to minimize the infiltration of water and prevent additional groundwater contamination that would violate the groundwater quality standards in ch. NR 140, Wis. Adm. Code, and to prevent direct contact with residual soil contamination that might otherwise pose a threat to human health.

The following activities are prohibited on any portion of the property where the engineered cap is required, unless prior written approval has been obtained from the Wisconsin Department of Natural Resources: 1) removal of the existing cap or cover; 2) replacement with another cover; 3) excavating or grading of the land surface; 4) filling on capped or covered areas; 5) plowing for agricultural cultivation; 6) construction or placement of a new building or other structure.

Upon Department approval to replace the existing cover, the replacement cover must be one of similar or lesser permeability, until contaminant levels no longer exceed the applicable standards.

Residual Groundwater Contamination

Groundwater impacted by petroleum contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on this contaminated property, as shown on "Exhibit A - Soil and Groundwater Contaminant Plume & Area of Cap Maintenance Plan".

If you intend to construct or reconstruct a water supply well, you will need prior Department approval in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To request 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 at http://dnr.wi.gov/org/water/dwg/3300254.pdf.

Post-Closure Notification Requirements
In accordance with ss, 292.12 and 292.13, Wis. Stats., you must notify the Department before making changes that affect or relate to the conditions of closure in this letter. For this case, examples of changed conditions requiring prior notification include, but are not limited to:

- Disturbance, construction on, change or removal in whole or part of the cap that must be maintained over contaminated soil

Please send written notifications in accordance with the above requirements to the Remediation and Redevelopment Program at the address in the letterhead of this letter.

PECFA Reimbursement
Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Department of Safety and Professional Services PECFA Program to determine the method for salvaging the equipment.

The DNR fact sheet, RR-819, "Continuing Obligations for Environmental Protection" has been included with this letter, to help explain property owner's responsibilities for continuing obligations on their property. If the fact sheet is lost, you may obtain a copy at http://dnr.wi.gov/org/aw/rr/archives/pubs/RR819.pdf.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

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 Jeff Ackerman at 608-275-3323.

Sincerely,

Linda Hanefeld, Team Supervisor
South Central Region Remediation & Redevelopment Program

Attachments:
Exhibit A - Soil and Groundwater Contaminant Plume & Area of Cap Maintenance Plan
Engineered Cap Maintenance Plan
RR-819-"Continuing Obligations for Environmental Protection"

Electronic copy:
Linda Fellenz, LF Green Development
Shawn Wenzel, DSPS

ENGINEERED CAP MAINTENANCE PLAN

April 15, 2009

Property Located at:

N191 Lange Road, Genoa City, Wisconsin 53128

FID No. 265117490, BRRTS No. 02-65-543865

PIN / TAX ID No. MB3200003 and MB3300005

Introduction

The purpose of this document is to present a Maintenance Plan for an engineered cap at the above-referenced property per the requirements of NR 724.13(2) of the Wisconsin Administrative Code. The maintenance activities relate to the existing hard-pack traffic bond surface occupying the area over the contaminated groundwater plume and soil on-site. The contaminated groundwater plume and soil is impacted by Diesel Range Organics (DRO), Volatile Organic Compounds (VOCs), and Polynuclear Aromatic Hydrocarbons (PAHs). The location of the hard-pack traffic bond surface to be maintained in accordance with this Maintenance Plan, as well as the impacted groundwater plume and soil are identified in the attached map (Exhibit A).

Engineered Cap Purpose

The hard-pack traffic bond surface over the contaminated groundwater plume and soil serve as a barrier to prevent direct human contact with residual soil contamination that might otherwise pose a threat to human health. The hard-pack traffic bond surface also acts as an infiltration barrier to minimize future soil-to-groundwater contamination migration that would violate the standards of NR 140 of the Wisconsin Administrative Code. Based on the current and future use of the property, the barrier should function as intended unless disturbed.

Annual Inspection

The hard-pack traffic bond surface overlying the contaminated groundwater plume and soil and as depicted in Exhibit A will be inspected once a year for loss of cover and other potential exposures to underlying soils. The inspections will be performed to evaluate damage due to exposure to the weather, wear from traffic, increasing age and other factors. Any area where soils have become or are likely to become exposed will be documented. A log of the inspections will be maintained by the property owner and is included as Exhibit B, *Cap Inspection Log*. The log will include recommendations for necessary repair of any areas where underlying soils are exposed. Once repairs are completed, they will be documented in the inspection log.

Maintenance Activities

If exposed soils are noted during the annual inspections or at any other time during the year, repairs will be scheduled as soon as practical. Maintenance activities can include patching and filling operations or they can include larger resurfacing or 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 the hard-pack traffic bond surface overlying the contaminated groundwater plume and soil are removed or replaced, the replacement barrier must be equally impervious, with an infiltration rate equal to or less than 1×10^{-7} cm/s. Any replacement barrier will be subject to the same maintenance and inspection guidelines as outlined in this Maintenance Plan unless indicated otherwise by the Wisconsin Department of Natural Resources ("WDNR") or its successor.

The property owner, in order to maintain the integrity of the hard-pack traffic bond surface, will maintain a copy of this Maintenance Plan on-site and 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

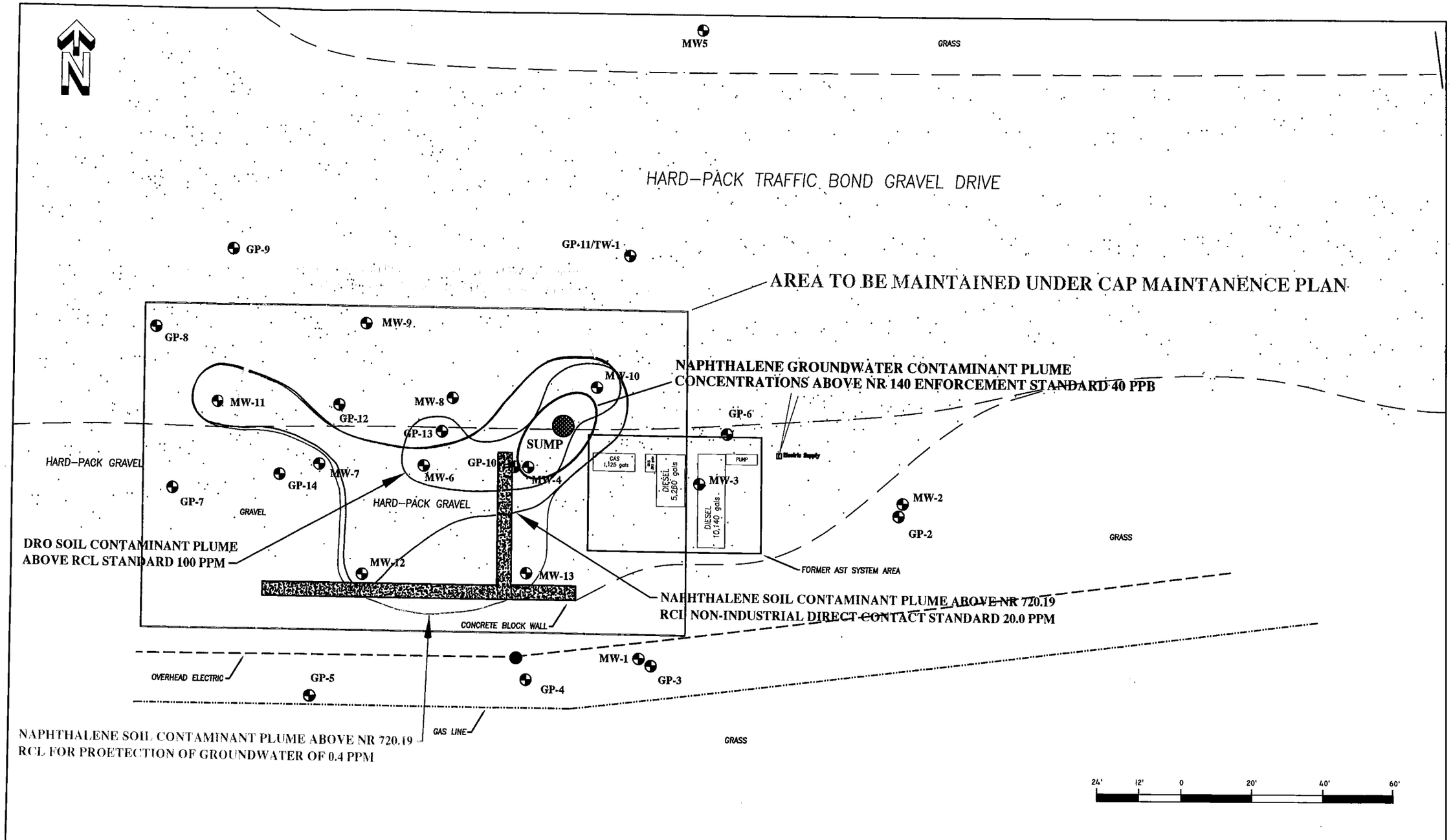
This Maintenance Plan can be amended or withdrawn by the property owner and its successors with the written approval of WDNR.

Contact Information
(as of April 2009)

Site Owner and Operator: Thelen Sand & Gravel, Inc. – Steve Thelen, President
28955 W. Route 173, Antioch, Illinois 60002
815-675-6613

Consultant: Kapur & Associates, Inc.
7711 N. Port Washington Road, Milwaukee, Wisconsin 53217
414-351-6668

WDNR: Dave Volkert
Wisconsin Department of Natural Resources
Waukesha Service Center
141 NW Barstow Street, Room 180, Waukesha, Wisconsin 53188
262-574-2100



LEGEND:

- MW-1 = HOLLOW STEM AUGER SOIL BORING / GROUNDWATER MONITORING WELL LOCATION
- GP-1 = GEOPROBE SOIL BORING
- GP-11/TW-1 = GEOPROBE SOIL BORING / TEMPORARY MONITORING WELL LOCATION

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

SOIL AND GROUNDWATER CONTAMINANT PLUME & AREA OF CAP MAINTANENCE PLAN

THELEN SAND & GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

EXHIBIT A

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06.0606.01	10/23/06	12/28/06

EXHIBIT B

BARRIER INSPECTION LOG

Inspection Date	Inspector	Condition of Cap	Recommendations	Have Recommendations from previous inspection been implemented?

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg WI 53711-5397

Scott Walker, Governor
Cathy Stepp, Secretary
Lloyd L. Eagan, Regional Director
Telephone 608-275-3266
FAX 608-275-3338
TTY Access via relay - 711

March 1, 2011

Mr. Chad Taylor
Thelen Sand & Gravel, Inc.
28955 W. Route 173
Antioch IL 60002

Subject: Conditional Closure Decision,
With Requirements to Achieve Final Closure
Thelen Sand & Gravel, Inc. Genoa City, Wisconsin
WDNR BRRTS Activity # 02-65-543865

Dear Mr. Taylor:

On February 17, 2011, the Department of Natural Resources South Central Region Closure Committee reviewed your request for closure of the case described above. The Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Committee determined that the petroleum contamination on the site from the former above ground storage tank appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

MONITORING WELL ABANDONMENT

The monitoring wells and the recovery sump at the site must be properly abandoned in accordance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to Jeff Ackerman on Form 3300-005, found at http://dnr.wi.gov/org/water/dwg/gw/ or provided by the Department of Natural Resources.

PURGE WATER, WASTE AND SOIL PILE REMOVAL

Any remaining purge water, waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department of Natural Resources' rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

CONTINUING OBLIGATIONS AND RESPONSIBILITIES

As part of the approval of the closure of this case, you will be responsible for maintaining the engineered cap that acts as a barrier to infiltration and direct contact with contaminated soil. In the final closure approval, you will also be required to conduct annual inspections. Documentation of the inspection will be required to be on site.

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 608-275-3323.

Sincerely,

Jeff Ackerman
Hydrogeologist
Remediation & Redevelopment Program

Enclosure

cc: Linda Fellenz, LF Green Development (via email)

State Bar of Wisconsin Form 1-2003

WARRANTY DEED

Document Number

Document Name

675881

Recorded
MAY 09, 2005 AT 10:43AM
CONNIE J WOOLEVER
REGISTER OF DEEDS
WALWORTH COUNTY, WI
Fee Amount: $11.00
Transfer Fee: $6900.00

Tier title 681139

THIS DEED, made between DONALD BASS and SANDRA BASS, Trustees of the Bass Living Trust dated April 10, 2003 ("Grantor," whether one or more), and THELEN SAND & GRAVEL, INC., ("Grantee," whether one or more).

Grantor, for a valuable consideration, conveys to Grantee the following described real estate, together with the rents, profits, fixtures and other appurtenant interests, in Walworth County, State of Wisconsin ("Property") (if more space is needed, please attach addendum):

~~THE SOUTHEAST ¼ OF THE SOUTHEAST ¼ OF SECTION 32 AND~~ THE SOUTHWEST ¼ OF THE SOUTHWEST ¼ OF SECTION 33, TOWNSHIP 1 NORTH, RANGE 18 EAST OF THE THIRD PRINCIPAL MERIDIAN, IN WALWORTH COUNTY, WISCONSIN, EXCEPT ANY PART THEREOF DESCRIBED IN CERTIFIED SURVEY NO. 447, RECORDED DECEMBER 9, 1947 IN VOLUME 2 OF CERTIFIED SURVEYS AT PAGE 250, AS DOCUMENT NO. 686357, WALWORTH COUNTY, WISCONSIN.

Name and Return Address:
Thelen Sand + Gravel, Inc.
28955 W. Route 173
Antioch, IL 60002
11.00

MB32 00003 AND MB33 00005
Parcel Identification Number (PIN)

This is NOT homestead property.
(is) (is not)

Grantor warrants that the title to the Property is good, indefeasible in fee simple and free and clear of encumbrances except:

Dated August 5, 2005.

Donald Bass Trustee (SEAL) _____ (SEAL)
* Donald Bass as Trustee of the Bass Living Trust

Sandra Bass Trustee (SEAL) _____ (SEAL)
* * Sandra Bass as Trustee of the Bass Living Trust * _____

AUTHENTICATION

Signature(s) _____

authenticated on _____

*

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, _____
authorized by Wis. Stat. § 706.06)

ACKNOWLEDGMENT

STATE OF ILLINOIS)
) ss.
McHENRY COUNTY)

Personally came before me on 8/5/05, the above-named DONALD BASS AND SANDRA BASS to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

*

Notary Public, State of IL
My Commission (is permanent) (expires: _____)

"OFFICIAL SEAL"
JAMES F. BISHOP
Notary Public, State of Illinois
My Commission Expires 08/27/2008

THIS INSTRUMENT DRAFTED BY:
Thelen Sand + Gravel
28955 W. Rt 173
Antioch Il 60002

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATIONS TO THIS FORM SHOULD BE CLEARLY IDENTIFIED.

© 2003 STATE BAR OF WISCONSIN

* Type name below signatures.

ALTA/ACSM LAND TITLE SURVEY

VANDERSTAPPEN SURVEYING INC.

SITE

LEGAL DESCRIPTION

Parcel 1

[redacted]

Parcel 2

[redacted]

F1

F2

F3

F4

Fines

Sand

POND

POND

POND

POND

POND

PARCEL 2

PARCEL 2 CONTAINS
1,446,062± SqFt
33.197 Acres

STX BUILDING DETAIL

LANDE ROAD

Former
Fuel STATION
[redacted]

Tax Key # MB3300005
38.95 acres
SW¼ SW¼ Sect 33
T1N R18E

WALWORTH COUNTY, WISCONSIN

McHENRY COUNTY, ILLINOIS

EXCEPTION
CERTIFIED SURVEY
NUMBER 447

CLIENT: [redacted]
DRAWN BY: CDS — CHECKED BY: [redacted]
SCALE: [redacted] — SEC 33 T. 01 N. R 18 E
BASIS OF BEARING: ASSUMED
P.I.N.: [redacted]
JOB NO: 09010
FIELDWORK DONE: 05/12/05

LEGEND

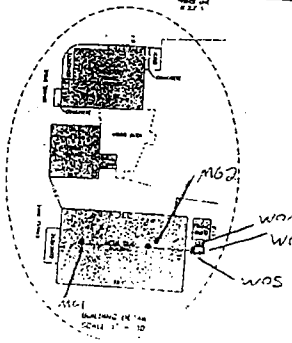
FOUND IRON BAR	SET IRON BAR
FOUND SPIKE	SET SPIKE
FOUND IRON PIPE	FOUND MONUMENT
DOWN GUY	UTILITY POLE
MAIL BOX	BILLBOARD
SIGN	MANHOLE
GAS METER	ELECTRICAL METER
SEPTIC TANK	SANITARY MANHOLE

SURVEYOR'S NOTES

1) The legal description and utility easements shown hereon have been provided by Chicago Title Insurance Company, Commitment policy #[illegible] dated May 19, 2005. The title information shown hereon is exclusively that provided to the Surveyor by the Title Insurer or the client. The Surveyor does not warrant the exact location of the utility easements shown hereon, but does state that they are located as accurately as possible from the information provided.

2) The underground utilities shown have been located from visible field evidence and utility drawings maps and records supplied to Surveyor. The Surveyor makes no representation that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The Surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from available information. The Surveyor has physically located visible structures hereon, he has not physically located the underground lines.

3) Easement in favor of Wisconsin Power and Light Company recorded December [illegible] 1950 in Volume 248 of Records Page 319 is not plottable and does affect parcel 2



STATE OF ILLINOIS)
) S.S.
COUNTY OF McHENRY)

Certified to:

In my professional opinion, and based on my observations, I certify that this plat and the survey on which it is based were made in accordance with "Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys," jointly established and adopted by ALTA, ACSM and NSPS in 1999, and includes Items 1, 2, 3, 4, 7(a) & 7c and 11(a) of Table A thereof. Pursuant to the accuracy standards as adopted by ALTA, NSPS and ACSM and in effect on the date of this certification, undersigned further certifies that the proximate ascertainable relationship of the improvements shown on the survey do not extend the apparent boundaries of the subject property lies within Zone "C", area of minimal flooding.

Dated this 18th day of May, A.D., 2005.

VANDERSTAPPEN SURVEYING INC
Design Firm No 184 002792

William J. VanderStappen (seal)
PROFESSIONAL LAND SURVEYOR
IL 035-002709
MO 51277

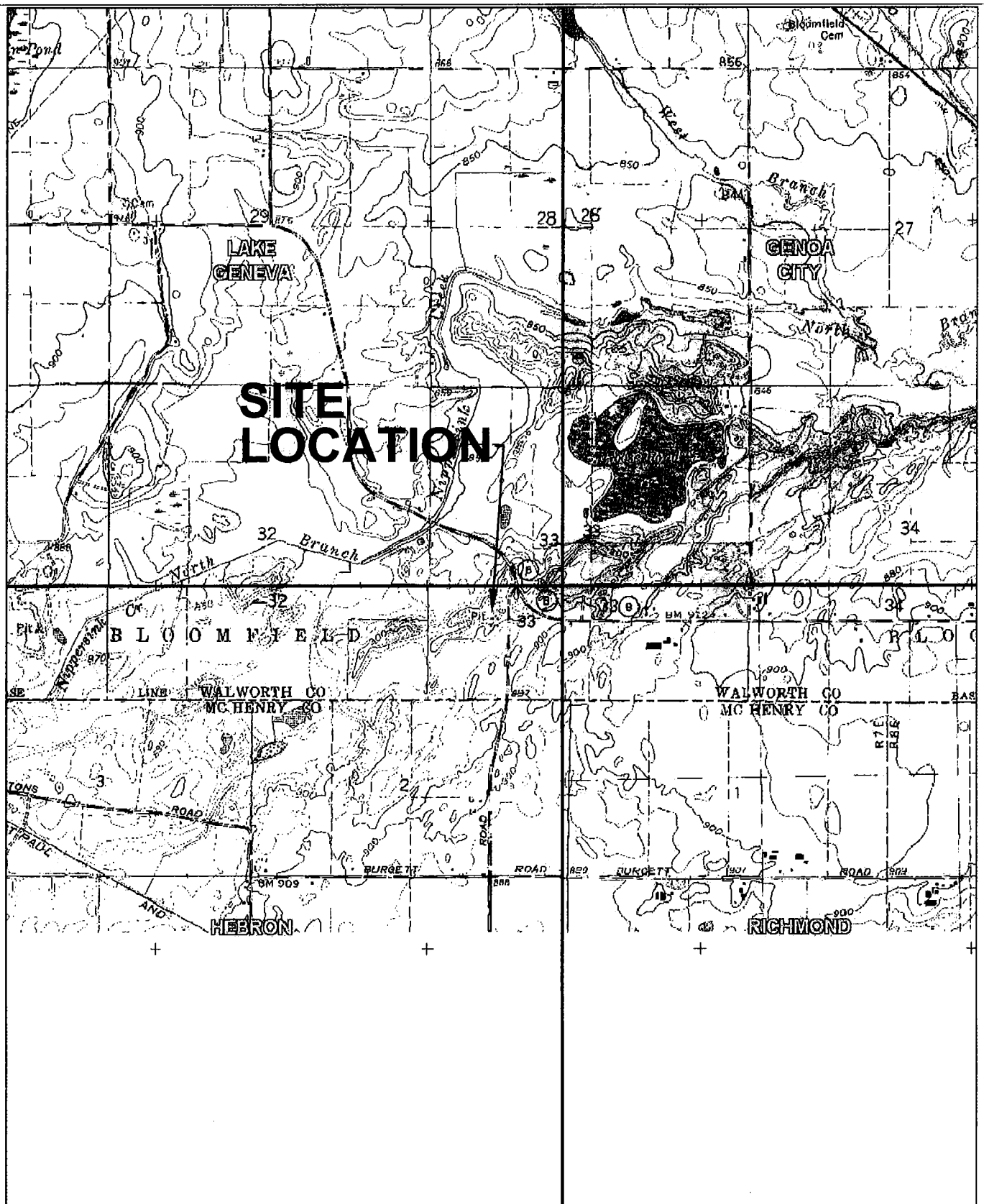
VANDERSTAPPEN SURVEYING INC. ILLINOIS

THELEN
Sand & Gravel, Inc.
28955 W IL RTE. 173, Antioch, IL 60002
(847) 395-3313

I, Steve Thelen – President of Thelen Sand & Gravel, Inc. owner/responsible party for the Thelen Sand & Gravel-Lange Road Pit Property, located at N191 Lange Road, Genoa City, Wisconsin, certify that to the best of my knowledge, the legal description has been attached for each property that is within, or partially within, the contaminated boundary.

Steve Thelen, President
Thelen Sand & Gravel, Inc.

Date 4/7/09



3-D TopoQuads Copyright © 1999 DeLorme Yarmouth, ME 04096 Source Data: USGS 750 ft Scale: 1 : 25,000 Detail: 13-0 Datum: WGS84

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

SITE LOCATION MAP

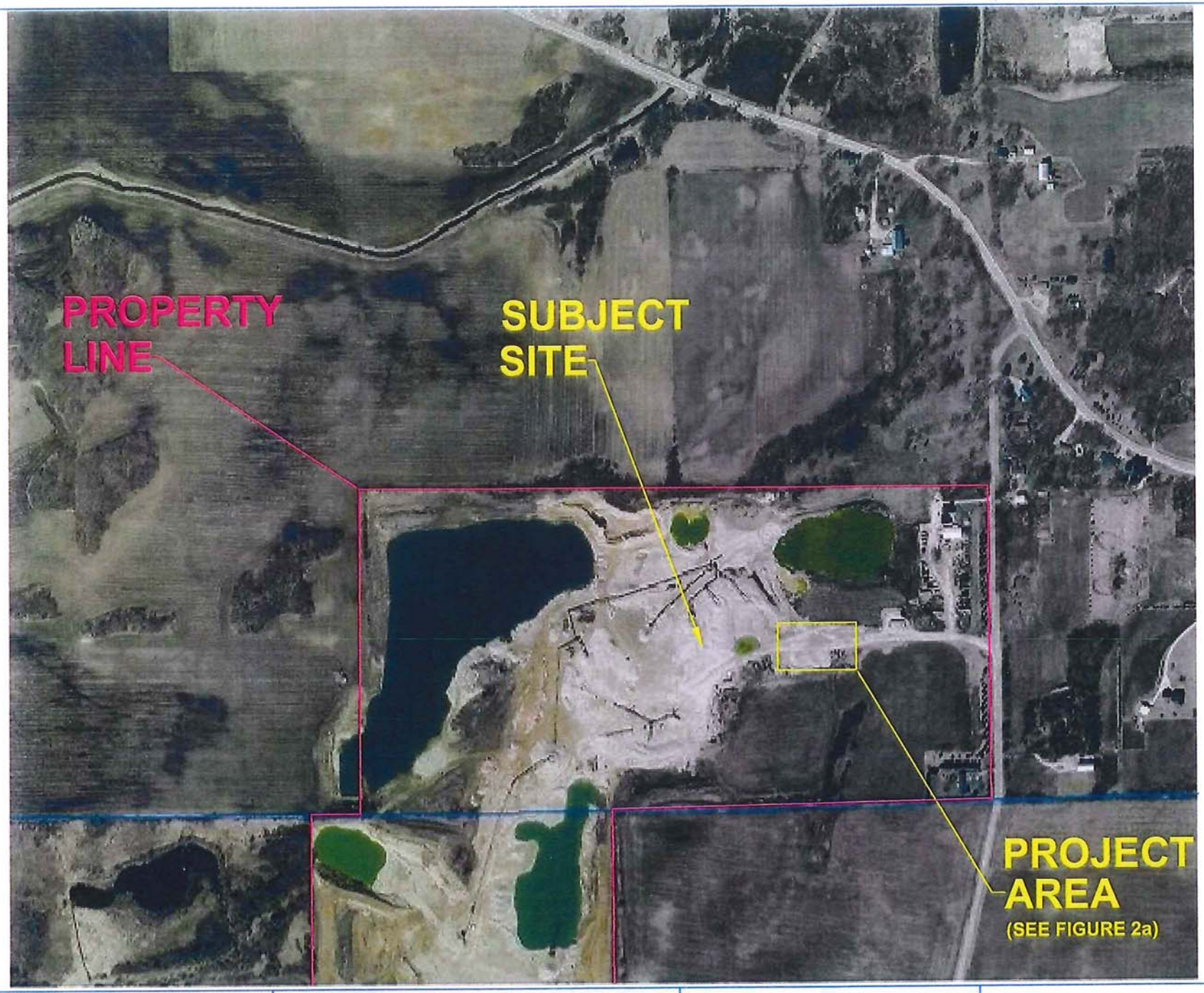
FIGURE 1

SOURCE: USGS ((1991 HEBRON (IL-WI) QUADRANGLE))

REFERENCE: U.S.G.S. 7.5. MINUTE SERIES.

THELEN SAND & GRAVEL, INC. - LANGE ROAD PIT
N191 LANGE ROAD, GENOA CITY, WISCONSIN

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06.0606.01	03/11/07	



SOURCE: SEWRPC REGIONAL MAPPING

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

SITE AERIAL PHOTOGRAPH

THELEN SAND & GRAVEL, INC. - LANGE ROAD PIT
N191 LANGE ROAD, GENOA CITY, WISCONSIN

FIGURE 2

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06606.421	03/11/07	

SOURCE: SEWRPC REGIONAL MAPPING

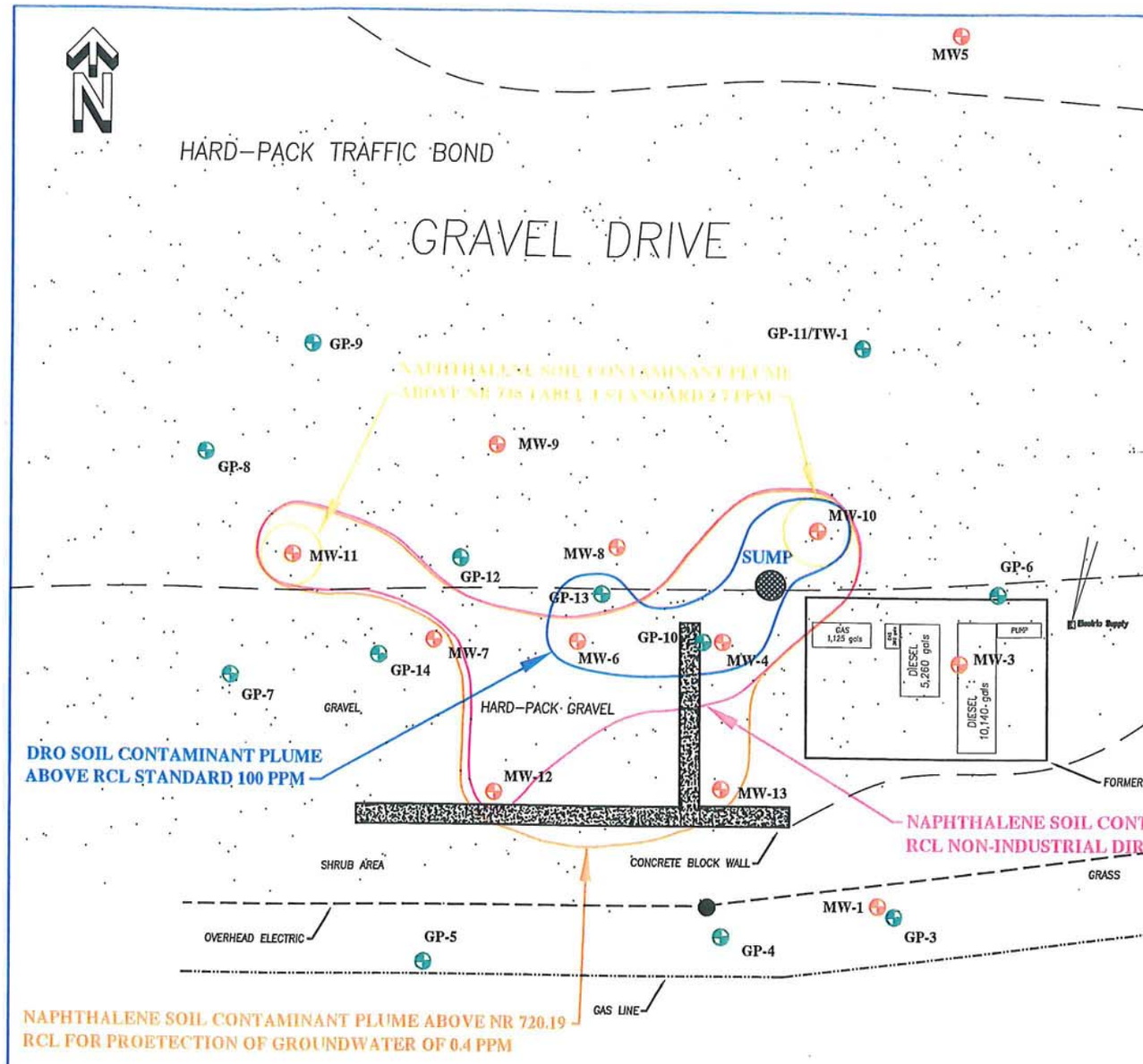
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

SITE AERIAL PHOTOGRAPH

THELEN SAND & GRAVEL, INC. - LANGE ROAD PIT
N191 LANGE ROAD, GENOA CITY, WISCONSIN

FIGURE 2b

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TMP	TEH	LJF	06606.421	03/11/07	



					Volatile Organic Compounds (VOCs) in ppm														
Sample #	Depth (ft bgs)	Date Collected	PID (ppm eq)	DRO (ppm)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	2-Chlorotoluene	4-Chlorotoluene	Chlorobenzene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Propylbenzene	p-Isopropyltoluene	Toluene	1,1,2,2-Tetrachloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene
MW-6	18-20'	10/27/2005	52	1,130	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	<0.41	NA	6.3	<0.084	0.79
MW-10	2-4'	9/20/2006	18	1,090	52.3	74.1	29.8	29.6	23.6	0.293	14.5	28.0	43.2	47.1	55.1	2.64	13.6	217.0	60.1	45.2
	18-20'	9/20/2006	<10	7,663	2.77	1.37	<0.0150	<0.0150	<0.0130	0.026	<0.0130	<0.0160	36.3	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
MW-11	2-4'	9/20/2006	<10	2,241	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.024	<0.0130	<0.0160	26.8	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
	18-20'	9/20/2006	<10	5,147	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.090	<0.0130	<0.0160	12.1	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
MW-12	2-4'	9/20/2006	<10	3,487	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.048	<0.0130	<0.0160	11.9	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
	18-20'	9/20/2006	<10	3,767	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	<0.0130	<0.0130	<0.0160	4.2	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
MW-13	2-4'	9/20/2006	<10	13.0	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.092	<0.0130	<0.0160	4.0	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
	18-20'	9/20/2006	<10	<5.2	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0520	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0790
GP-1	2-4'	2/29/2008	<10	<5.9	NA	NA	NA	NA	NA	NA	<0.0300	NA	<0.0590	NA	NA	<0.030	NA	<0.030	<0.030	<0.0890
GP-2	2-4'	2/29/2008	<10	<6.2	NA	NA	NA	NA	NA	NA	<0.0310	NA	<0.0620	NA	NA	<0.0310	NA	<0.0310	<0.0310	<0.0930
GP-3	2-4'	2/29/2008	<10	<6.1	NA	NA	NA	NA	NA	NA	<0.0310	NA	<0.0610	NA	NA	<0.0310	NA	<0.0310	<0.0310	<0.0920
GP-4	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0310	NA	<0.0620	NA	NA	<0.0310	NA	<0.0310	<0.0310	<0.0930
GP-5	2-4'	2/29/2008	<10	<5.3	NA	NA	NA	NA	NA	NA	<0.0270	NA	<0.0530	NA	NA	<0.0270	NA	<0.0270	<0.0270	<0.0800
GP-6	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0530	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0790
GP-7	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0520	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0780
GP-8	2-4'	2/29/2008	<10	7.4	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0530	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0790
GP-9	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0290	NA	<0.0570	NA	NA	<0.0290	NA	<0.0290	<0.0290	<0.0860
GP-10	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.026	NA	<0.051	NA	NA	<0.026	NA	<0.026	<0.026	<0.077
TW-1	2-4'	2/29/2008	<10	71.0	NA	NA	NA	NA	NA	NA	<0.029	NA	<0.051	NA	NA	<0.029	NA	<0.029	<0.029	<0.087
GP-12	2-4'	9/10/2008	<10	6.7	NA	NA	NA	NA	NA	NA	<0.026	NA	<0.052	NA	NA	<0.026	NA	<0.026	<0.026	<0.078
	16-18'	9/10/2008	<10	190.0	NA	NA	NA	NA	NA	NA	<0.028	NA	<0.055	NA	NA	<0.028	NA	<0.028	<0.028	<0.083
GP-13	2-4'	9/10/2008	<10	<4.6	NA	NA	NA	NA	NA	NA	<0.029	NA	<0.057	NA	NA	<0.029	NA	<0.029	<0.029	<0.086
	14-16'	9/10/2008	<10	15.0	NA	NA	NA	NA	NA	NA	<0.028	NA	<0.055	NA	NA	<0.028	NA	<0.028	<0.028	<0.083
GP-14	16-18'	9/10/2008	<10	<5.1	NA	NA	NA	NA	NA	NA	<0.0250	NA	<0.0500	NA	NA	<0.0250	NA	<0.0250	<0.0250	<0.0750
	NA	2/29/2008	NA	NA	NA	NA	NA	NA	NA	NA	<0.0250	NA	<0.0500	NA	NA	<0.0250	NA	<0.0250	<0.0250	<0.0750
Trip	NA	9/10/2008	NA	NA	NA	NA	NA	NA	NA	NA	<0.0250	NA	<0.0500	NA	NA	<0.0250	NA	<0.0250	<0.0250	<0.0750
NR 720.09 Residual Contaminant Level (RCL)				100/250*	NS	NS	NS	NS	NS	NS	2.9	NS	NS	NS	NS	1.5	NS	NS	NS	4.1
NR 720.19 RCL Groundwater Pathway*				NS	NS	NS	NS	NS	NS	NS	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS
NR 720.19 RCL Direct Contact (Non-Industrial)**				NS	NS	NS	NS	NS	NS	NS	NS	NS	20	NS	NS	NS	NS	NS	NS	NS
NR 746.06 Table.1 (free product indicator)				NS	NS	NS	NS	NS	NS	NS	4.0	NS	2.7	NS	NS	38	NS	83	11	42
NR 746.06 Table 2 (direct contact standard)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

LEGEND:

- MW-1 = HOLLOW STEM AUGER SOIL BORING / GROUNDWATER MONITORING WELL LOCATION
- GP-1 = GEOPROBE SOIL BORING
- GP-11/TW-1 = GEOPROBE SOIL BORING / TEMPORARY MONITORING WELL LOCATION

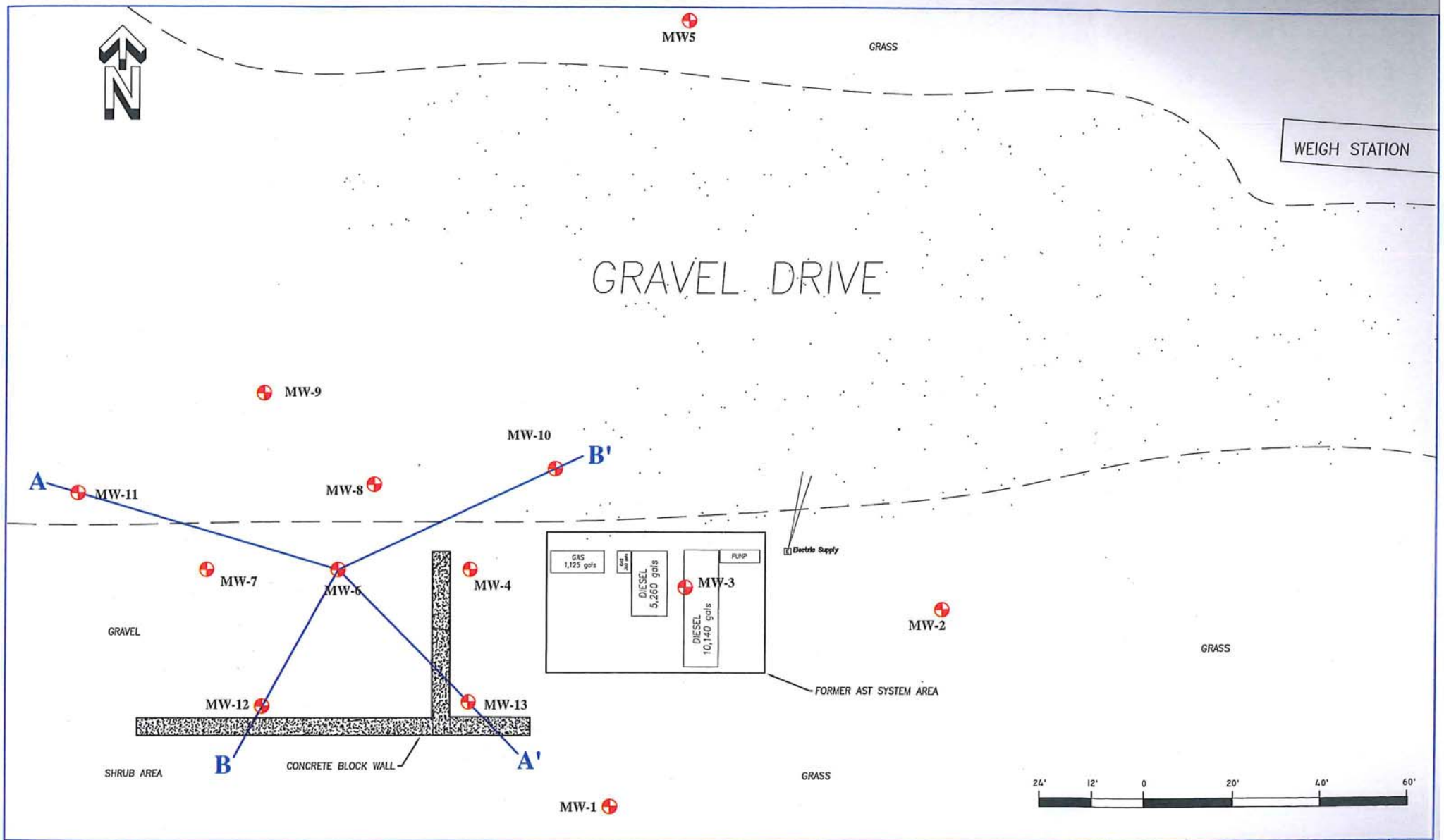
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

SOIL BORING LOCATION, SAMPLE RESULTS & ISOCONSENTRATION MAP

THELEN SAND & GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

FIGURE **3**

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06.0606.01	10/23/06	12/28/08



LEGEND:

MW-1 = SOIL BORING / GROUNDWATER MONITORING WELL LOCATION

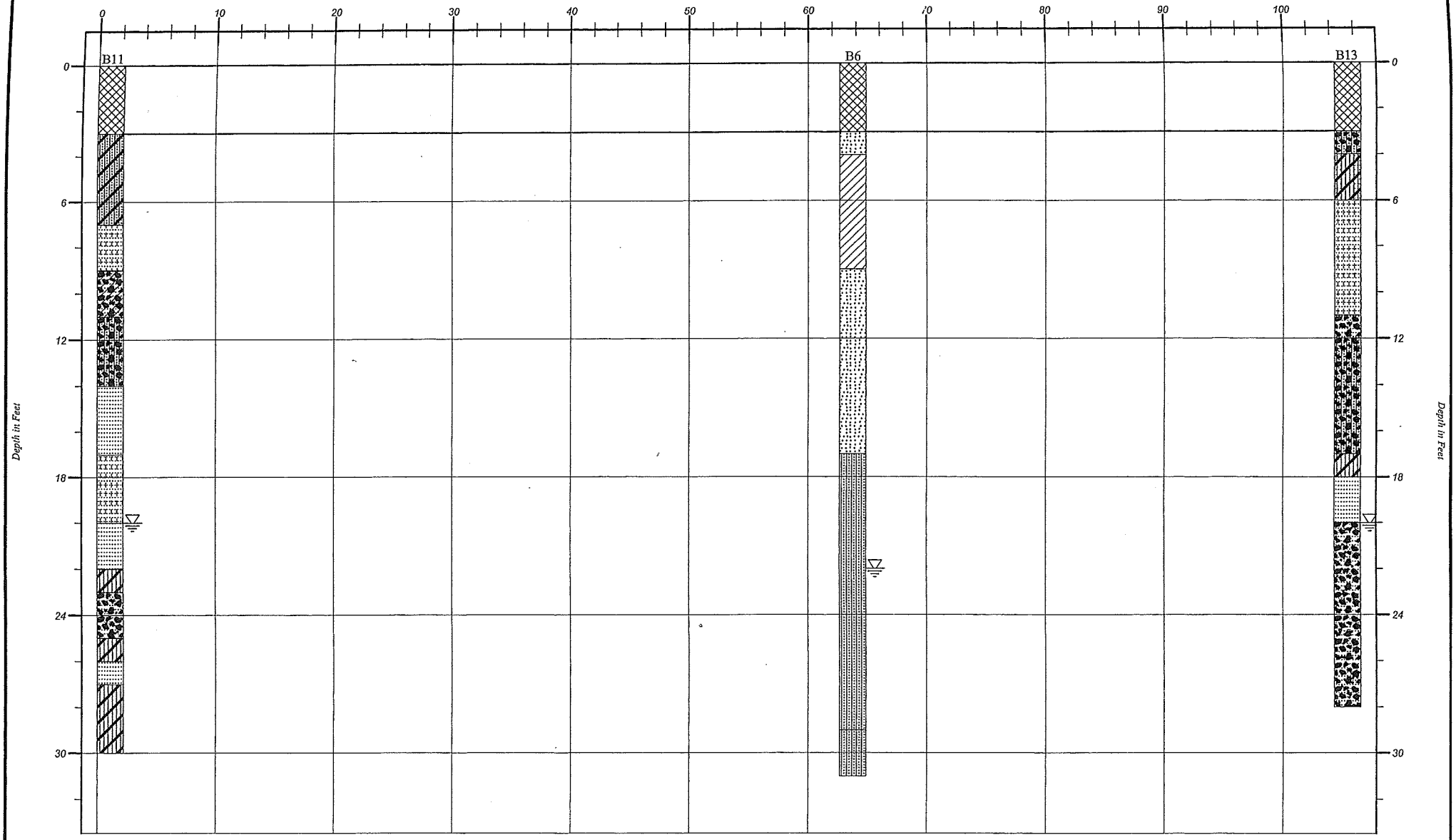
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

GEOLOGIC CROSS-SECTION IN PLAN VIEW

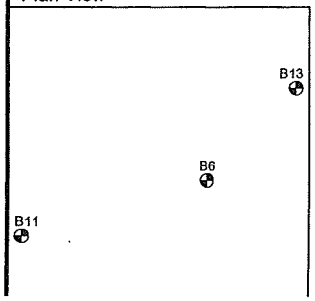
THELEN SAND & GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

FIGURE 3a

DRAWN BY	CHECKED BY	APPROVED BY	PROJECT NUMBER	DATE	REVISED DATE
TWP	TEH	LJF	06606.421	10/23/06	



Plan View



Strata symbols

- Fill
- Silty sandy clay
- Well graded sand with silt
- Clayey sand and gravel
- Silty sand and gravel
- Well graded sand
- Silty low plasticity clay
- Well graded gravel and sand
- Poorly graded sand
- Low plasticity clay
- Silty sand
- Description not given for: "CZS"

Kapur & Associates, Inc.

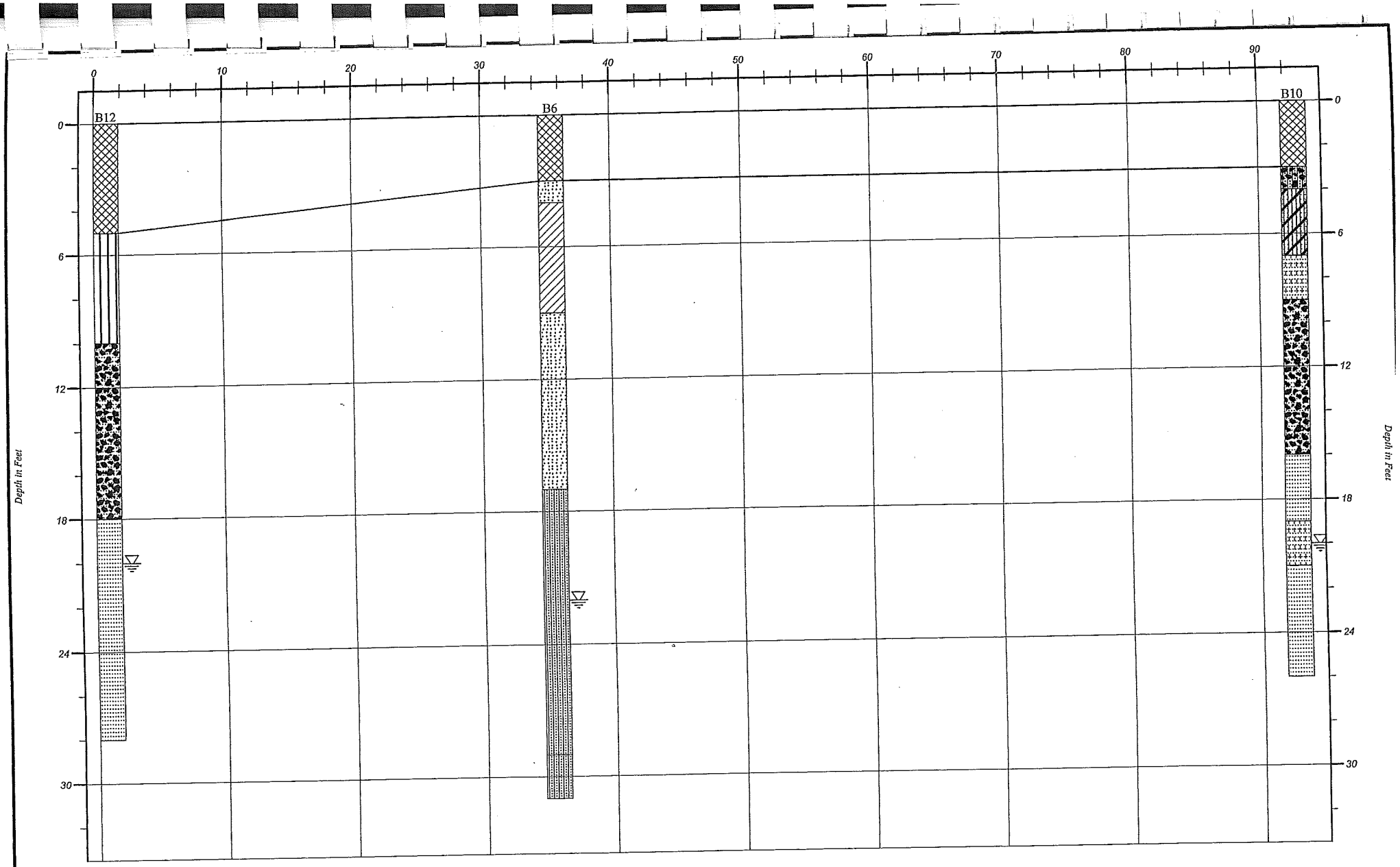
GENERALIZED SOIL PROFILE A-A'

HORIZONTAL SCALE: 1"=(proportional)'	DRAWN BY: TWP	DATE: 02/16/07
VERTICAL SCALE: 1"=6'		3/20/2007

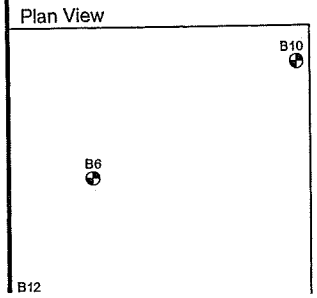
Thelen Sand & Gravel, Inc.

PROJECT NO. 06606.421

FIGURE: 3b



Plan View



Strata symbols

- Fill
- Elastic silt
- Well graded gravel and sand
- Well graded sand
- Poorly graded sand
- Low plasticity clay
- Silty sand
- Silty sand and gravel
- Description not given for: "CZS"
- Well graded sand with silt

Kapur & Associates, Inc.

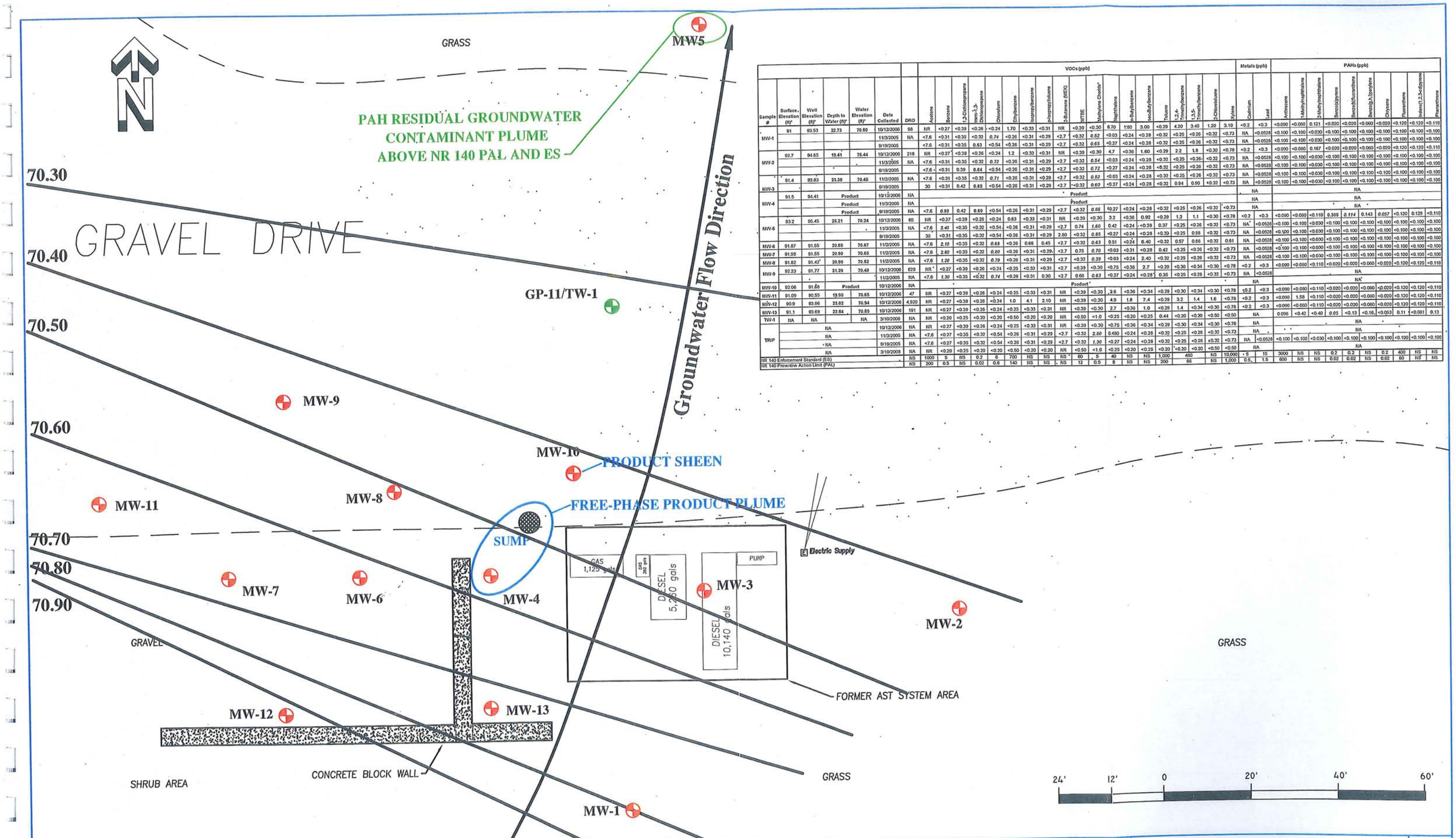
GENERALIZED SOIL PROFILE B-B'

HORIZONTAL SCALE: 1"=(proportional)'	DRAWN BY: TWP	DATE: 02/16/07
VERTICAL SCALE: 1"=6'		3/20/2007

Thelen Sand & Gravel, Inc.

PROJECT NO. 06606.421

FIGURE: 3c



Sample #	Surface Elevation (ft)*	Well Elevation (ft)*	Depth to Water (ft)*	Water Elevation (ft)*	Date Collected	DRO	VOCs (ppb) Acetone	Benzene	1,2-Dichloropropane	trans-1,3-Dichloropropene	Chloroform	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	2-Butanone (MEK)	MTBE	Methylene Chloride*	Naphthalene	n-Butylbenzene	sec-Butylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	1,2-Chlorotoluene	Xylene	Metals (ppb) Cadmium	Lead	PAHs (ppb) Anthracene	1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Phenanthrene
MW-1	91	93.53	22.73	70.80	10/12/2006	98	NR	<0.27	<0.39	<0.26	<0.24	1.70	<0.33	<0.31	NR	<0.39	<0.30	6.70	1.80	3.00	<0.29	4.20	3.40	1.20	3.10	<0.2	<0.3	<0.090	<0.060	0.121	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.110
					11/3/2005	NA	<7.6	<0.31	<0.35	<0.32	0.74	<0.26	<0.31	<0.29	<2.7	<0.32	0.52	<0.03	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
					9/19/2005		<7.6	<0.31	<0.35	0.63	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.65	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-2	92.7	94.65	19.41	75.44	10/12/2006	218	NR	<0.27	<0.39	<0.26	<0.24	1.2	<0.33	<0.31	NR	<0.39	<0.30	4.7	<0.36	1.60	<0.29	2.2	1.8	<0.30	<0.78	<0.2	<0.3	<0.090	<0.060	0.167	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.110
					11/3/2005	NA	<7.6	<0.31	<0.35	<0.32	0.72	<0.26	<0.31	<0.29	<2.7	<0.32	0.54	<0.03	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
					9/19/2005		<7.6	<0.31	0.39	0.64	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.72	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-3	91.4	93.83	23.38	70.45	11/2/2005	NA	<7.6	<0.31	<0.35	<0.32	0.71	<0.26	<0.31	<0.29	<2.7	<0.32	0.52	<0.03	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
					9/19/2005		30	<0.31	0.42	0.65	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.60	<0.27	<0.24	<0.28	<0.32	0.94	0.90	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-4	91.5	94.41	Product		10/12/2006	NA	Product																			NA		NA									
			Product		11/3/2005	NA	Product																			NA		NA									
			Product		9/19/2005	NA	<7.6	0.93	0.42	0.60	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.56	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA		NA									
MW-5	93.2	95.45	25.21	70.24	10/12/2006	65	NR	<0.27	<0.39	<0.26	<0.24	0.83	<0.33	<0.31	NR	<0.39	<0.30	3.2	<0.36	0.92	<0.29	1.3	1.1	<0.30	<0.78	<0.2	<0.3	<0.090	<0.060	<0.110	0.305	0.114	0.143	0.057	<0.120	0.129	<0.110
					11/3/2005	NA	<7.6	3.40	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	<2.7	0.74	1.60	0.42	<0.24	<0.28	0.37	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
					9/19/2005		35	<0.31	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	2.60	<0.32	0.85	<0.27	<0.24	<0.28	<0.33	<0.25	0.98	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-6	91.87	91.55	20.88	70.67	11/2/2005	NA	<7.6	2.10	<0.35	<0.32	0.68	<0.26	0.66	0.45	<2.7	<0.32	0.63	0.51	<0.24	6.40	<0.32	0.57	0.60	<0.32	0.81	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-7	91.98	91.55	20.90	70.65	11/2/2005	NA	<7.6	2.60	<0.35	<0.32	0.60	<0.26	<0.31	<0.29	<2.7	0.75	0.70	<0.03	<0.31	<0.28	0.42	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-8	91.82	91.42*	20.90	70.52	11/2/2005	NA	<7.6	1.20	<0.35	<0.32	0.79	<0.26	<0.31	<0.29	<2.7	<0.32	0.39	<0.03	<0.24	2.40	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
MW-9	92.23	91.77	21.29	70.48	10/12/2006	629	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	<2.7	<0.39	<0.30	<0.75	<0.36	2.7	<0.29	<0.30	<0.34	<0.30	<0.78	<0.2	<0.3	<0.090	<0.060	<0.110	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.110
					11/2/2005	NA	<7.6	1.30	<0.35	<0.32	0.74	<0.26	<0.31	0.30	<2.7	0.66	0.63	<0.27	<0.24	<0.28*	0.35	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	NA									
MW-10	92.06	91.68	Product		10/12/2006	NA	Product*																			NA		NA*									
MW-11	91.09	90.55	19.90	70.65	10/12/2006	47	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	NR	<0.39	<0.30	2.6	<0.36	<0.34	<0.29	<0.30	<0.34	<0.30	<0.78	<0.2	<0.3	<0.090	<0.060	<0.110	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.110
MW-12	90.9	93.96	23.02	70.94	10/12/2006	4,920	NR	<0.27	<0.39	<0.26	<0.24	1.0	4.1	2.10	NR	<0.39	<0.30	4.9	1.8	7.4	<0.29	3.2	1.4	1.6	<0.78	<0.2	<0.3	<0.090	1.58	<0.110	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.110
MW-13	91.1	93.69	22.84	70.85	10/12/2006	191	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	NR	<0.39	<0.30	2.7	<0.36	1.0	<0.29	1.4	<0.34	<0.30	<0.78	<0.2	<0.3	<0.090	<0.060	<0.110	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.110
TW-1	NA	NA		NA	3/10/2008	NA	NR	<0.20	<0.25	<0.20	<0.20	<0.50	<0.20	<0.20	NR	<0.50	<1.0	<0.25	<0.20	<0.25	0.44	<0.20	<0.20	<0.50	<0.50	NA		0.096	<0.42	<0.40	0.05	<0.13	<0.16	<0.053	0.11	<0.081	0.13
TRIP	NA				10/12/2006	NA	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	NR	<0.39	<0.30	<0.75	<0.36	<0.34	<0.29	<0.30	<0.34	<0.30	<0.78	NA		NA									
	NA				11/3/2005	NA	<7.6	<0.27	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	2.80	0.460	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA		NA									
	NA				9/19/2005	NA	<7.6	<0.27	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	1.30	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	NA				3/10/2008	NA	NR	<0.20	<0.25	<0.20	<0.20	<0.50	<0.20	<0.20	NR	<0.50	<1.0	<0.25	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	NA		NA									
NR 140 Enforcement Standard (ES)						NS	1000	5	NS	0.2	6	700	NS	NS	NS	60	5	40	NS	NS	1,000	480		NS	10,000	15	15	3000	NS	NS	0.2	0.2	NS	0.2	400	NS	NS
NR 140 Preventive Action Limit (PAL)						NS	200	0.5	NS	0.02	0.6	140	NS	NS	NS	12	0.5	8	NS	NS	200	96		NS	1,000	0.5	1.5	600	NS	NS	0.02	0.02	NS	0.02	80	NS	NS

LEGEND:

MW-1 = GROUNDWATER MONITORING WELL

TW-1 = TEMPORARY MONITORING WELL LOCATION

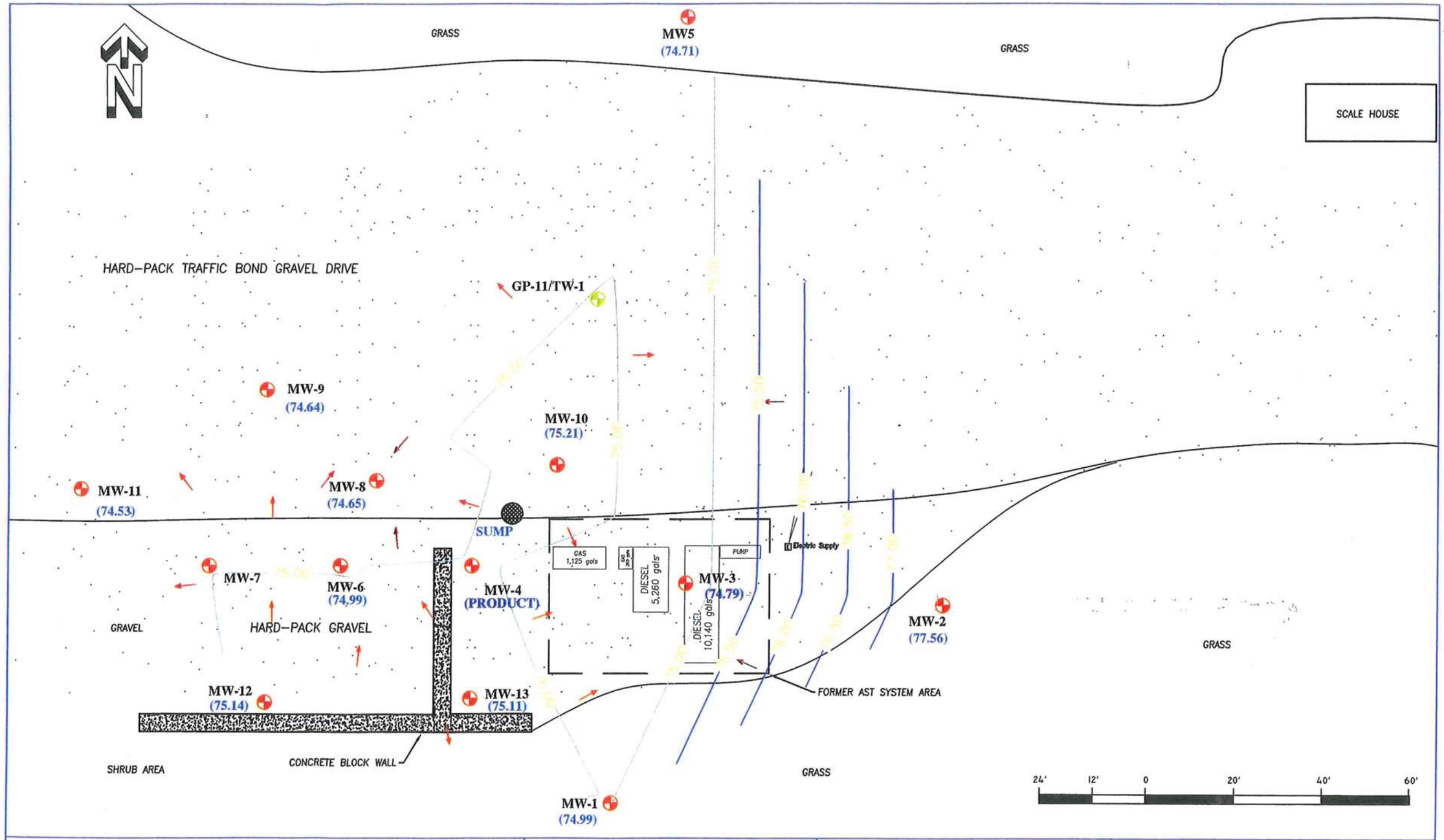
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

GROUNDWATER SAMPLE RESULTS AND RESIDUAL CONTAMINANT PLUME

THELEN SAND AND GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

FIGURE 4

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	LJF	06606.421	10/23/06	05/01/08



LEGEND:

MW-1 = GROUNDWATER MONITORING WELL

TW-1 = TEMPORARY MONITORING WELL LOCATION

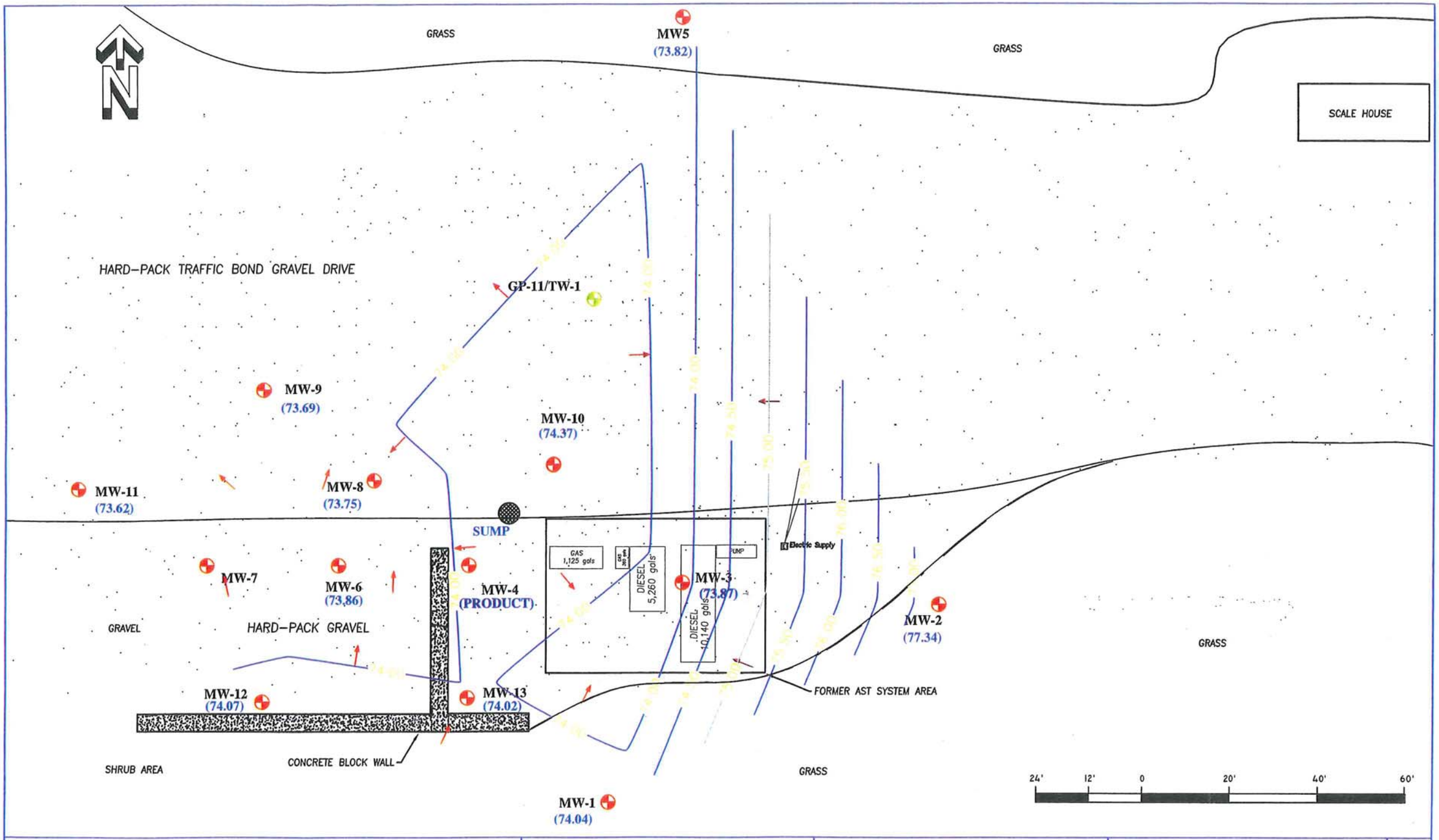
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

GROUNDWATER ELEVATION & FLOW DIRECTION MAP - AUGUST 24, 2009

THELEN SAND AND GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

FIGURE 5

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06.0606.01	10/23/06	08/24/09



LEGEND:

MW-1 = GROUNDWATER MONITORING WELL

TW-1 = TEMPORARY MONITORING WELL LOCATION

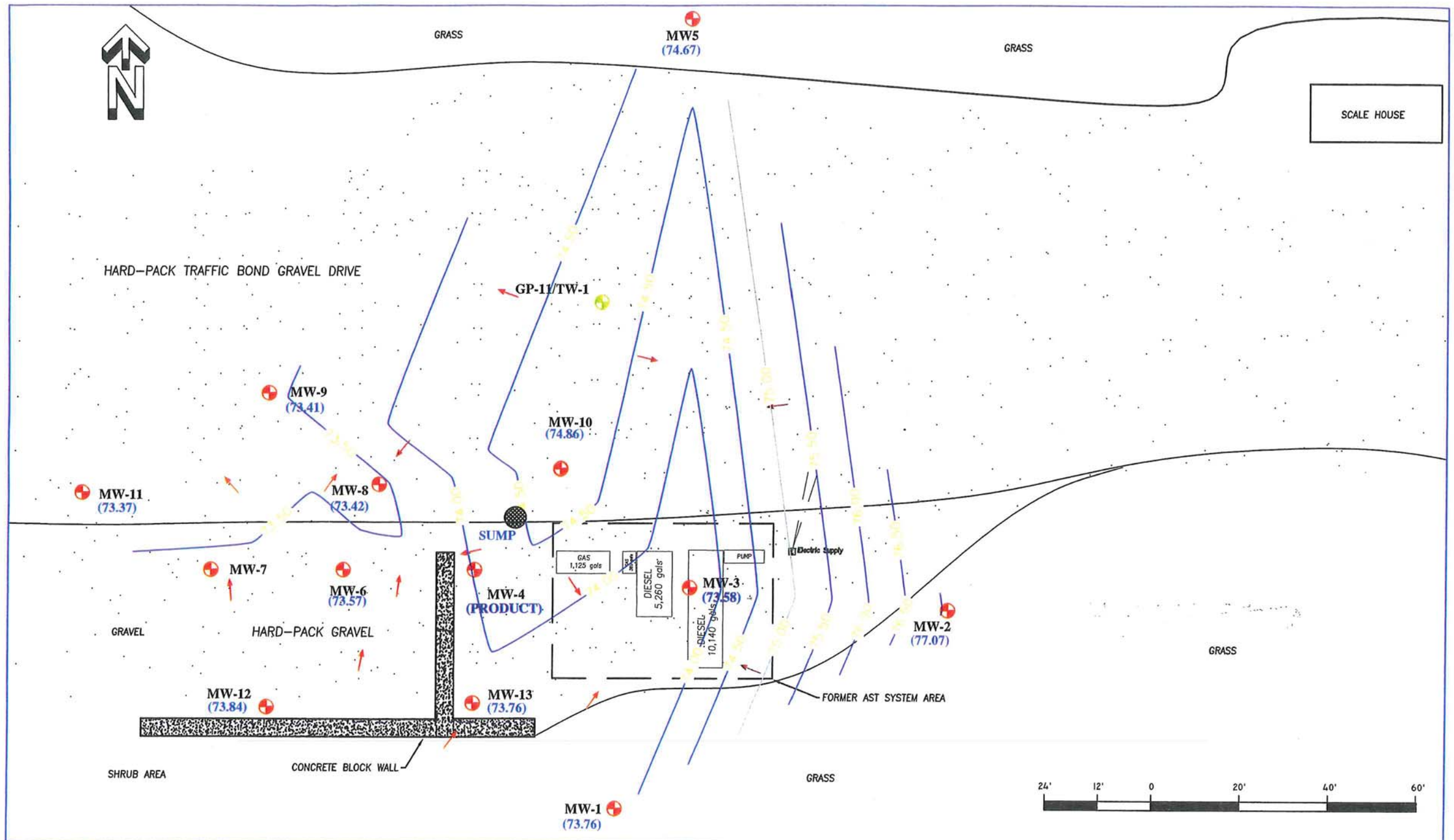
KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

GROUNDWATER ELEVATION & FLOW DIRECTION MAP - NOVEMBER 18, 2009

THELEN SAND AND GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

FIGURE 6

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06.0606.01	10/23/06	11/18/09



LEGEND:

MW-1 = GROUNDWATER MONITORING WELL

TW-1 = TEMPORARY MONITORING WELL LOCATION

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

GROUNDWATER ELEVATION & FLOW DIRECTION MAP - JULY 21, 2010

THELEN SAND AND GRAVEL, INC - LANGE ROAD PIT
GENOA CITY, WISCONSIN

FIGURE 7

DRAWN BY:	CHECKED BY:	APPROVED BY:	PROJECT NUMBER:	DATE:	REVISED DATE:
TWP	TEH	TWP	06.0606.01	10/23/06	07/21/10

Table 2: Soil Sample Analytical Results
Thelen Sand and Gravel, Inc. - Lange Road Pit
Genoa City, Wiscosnin

					Volatile Organic Compounds (VOCs) in ppm															
Sample #	Depth (ft bgs)	Date Collected	PID (ppm eq)	DRO (ppm)	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	2-Chlorotoluene	4-Chlorotoluene	Chlorobenzene	Ethylbenzene	Isopropylbenzene	Naphthalene	n-Propylbenzene	p-Isopropyltoluene	Toluene	1,1,2,2-Tetrachloroethane	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Xylene
MW-6	18-20'	10/27/2005	52	**1,130**	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	<0.41	NA	6.3	<0.084	0.79
MW-10	2-4'	9/20/2006	18	**1,090**	52.3	74.1	29.8	29.6	23.6	0.293	**14.5**	28.0	***43.2***	47.1	55.1	**2.64**	13.6	**217.0**	**60.1**	**45.2**
	18-20'	9/20/2006	<10	7.663	2.77	1.37	<0.0150	<0.0150	<0.0130	0.026	<0.0130	<0.0160	***36.3***	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
MW-11	2-4'	9/20/2006	<10	2.241	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.024	<0.0130	<0.0160	***26.8***	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
	18-20'	9/20/2006	<10	5.147	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.090	<0.0130	<0.0160	***12.1***	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
MW-12	2-4'	9/20/2006	<10	3.487	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.048	<0.0130	<0.0160	***11.9***	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
MW-13	2-4'	9/20/2006	<10	3.767	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	<0.0130	<0.0130	<0.0160	***4.2***	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
	18-20'	9/20/2006	<10	13.0	<0.0180	<0.0170	<0.0150	<0.0150	<0.0130	0.092	<0.0130	<0.0160	***4.0***	<0.0140	<0.0160	<0.0150	<0.0220	<0.0150	<0.0170	<0.04
GP-1	2-4'	2/29/2008	<10	<5.2	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0520	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0790
GP-2	2-4'	2/29/2008	<10	<5.9	NA	NA	NA	NA	NA	NA	<0.0300	NA	<0.0590	NA	NA	<0.030	NA	<0.030	<0.030	<0.0890
GP-3	2-4'	2/29/2008	<10	<6.2	NA	NA	NA	NA	NA	NA	<0.0310	NA	<0.0620	NA	NA	<0.0310	NA	<0.0310	<0.0310	<0.0930
GP-4	2-4'	2/29/2008	<10	<6.1	NA	NA	NA	NA	NA	NA	<0.0310	NA	<0.0610	NA	NA	<0.0310	NA	<0.0310	<0.0310	<0.0920
GP-5	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0310	NA	<0.0620	NA	NA	<0.0310	NA	<0.0310	<0.0310	<0.0930
GP-6	2-4'	2/29/2008	<10	<5.3	NA	NA	NA	NA	NA	NA	<0.0270	NA	<0.0530	NA	NA	<0.0270	NA	<0.0270	<0.0270	<0.0800
GP-7	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0530	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0790
GP-8	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0520	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0780
GP-9	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0520	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0780
GP-10	2-4'	2/29/2008	<10	7.4	NA	NA	NA	NA	NA	NA	<0.0260	NA	<0.0530	NA	NA	<0.0260	NA	<0.0260	<0.0260	<0.0790
TW-1	2-4'	2/29/2008	<10	NA	NA	NA	NA	NA	NA	NA	<0.0290	NA	<0.0570	NA	NA	<0.0290	NA	<0.0290	<0.0290	<0.0860
GP-12	2-4'	9/10/2008	<10	71.0	NA	NA	NA	NA	NA	NA	<0.026	NA	<0.051	NA	NA	<0.026	NA	<0.026	<0.026	<0.077
	16-18'	9/10/2008	<10	6.7	NA	NA	NA	NA	NA	NA	<0.029	NA	<0.051	NA	NA	<0.029	NA	<0.029	<0.029	<0.087
GP-13	2-4'	9/10/2008	<10	**190.0**	NA	NA	NA	NA	NA	NA	<0.026	NA	<0.052	NA	NA	<0.026	NA	<0.026	<0.026	<0.078
	14-16'	9/10/2008	<10	<4.6	NA	NA	NA	NA	NA	NA	<0.028	NA	<0.055	NA	NA	<0.028	NA	<0.028	<0.028	<0.083
GP-14	2-4'	9/10/2008	<10	15.0	NA	NA	NA	NA	NA	NA	<0.029	NA	<0.057	NA	NA	<0.029	NA	<0.029	<0.029	<0.086
	16-18'	9/10/2008	<10	<5.1	NA	NA	NA	NA	NA	NA	<0.028	NA	<0.055	NA	NA	<0.028	NA	<0.028	<0.028	<0.083
Trip	NA	2/29/2008	NA	NA	NA	NA	NA	NA	NA	NA	<0.0250	NA	<0.0500	NA	NA	<0.0250	NA	<0.0250	<0.0250	<0.0750
	NA	9/10/2008	NA	NA	NA	NA	NA	NA	NA	NA	<0.0250	NA	<0.0500	NA	NA	<0.0250	NA	<0.0250	<0.0250	<0.0750
NR 720.09 Residual Contaminant Level (RCL)				100/250*	NS	NS	NS	NS	NS	NS	2.9	NS	NS	NS	NS	1.5	NS	NS	NS	4.1
NR 720.19 RCL Groundwater Pathway*				NS	NS	NS	NS	NS	NS	NS	NS	NS	0.4	NS	NS	NS	NS	NS	NS	NS
NR 720.19 RCL Direct Contact (Non-Industrial)**				NS	NS	NS	NS	NS	NS	NS	NS	NS	20	NS	NS	NS	NS	NS	NS	NS
NR 746.06 Table 1 (free product indicator)				NS	NS	NS	NS	NS	NS	NS	4.6	NS	2.7	NS	NS	38	NS	83	11	42
NR 746.06 Table 2 (direct contact standard)				NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

NOTES:

All results are in parts per million (ppm) unless otherwise noted
* = Residual Contaminant Levels (RCLs) based on protection of groundwater per NR 720 in ppm
** = RCLs based on human health risk from direct contact related to non-industrial use per NR 720
Concentrations exceeding the NR 720.09 RCLs are in **bold face**
Concentrations exceeding the NR 720.19 RCLs are in ***bold face italics***
Concentrations exceeding the NR 746 Table 1 Standards are **underlined**
ft bgs = feet below ground surface
PID = photoionization detector ppm eq = parts per million equivalent
DRO = Diesel Range Organics
VOC = Volitile Organic Compounds
NA = not analyzed or not applicable

Only comounds detected in at least one sample are shown

Table 3: Groundwater Sample Analytical Results
Thelen Sand and Gravel, Inc. - Lange Road Pit
Genoa City, Wisconsin

							VOCs (ppb)																		Metals (ppb)		PAHs (ppb)													
Sample #	Surface Elevation (ft)*	Well Elevation (ft)*	Depth to Water (ft)*	Water Elevation (ft)*	Date Collected	DRO	Acetone	Benzene	1,3-Dichloropropane	trans-1,3-Dichloropropene	Chloroform	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	2-Butanone (MEK)	MTBE	Methylene Chloride*	Naphthalene	n-Butylbenzene	sec-Butylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Chlorotoluene	Xylene	Cadmium	Lead	Acenaphthene	Anthracene	1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
MW-1					9/19/2005	NA	<7.6	<0.31	<0.35	0.63	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.65	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
					11/3/2005	NA	<7.6	<0.31	<0.35	<0.32	0.74	<0.26	<0.31	<0.29	<2.7	<0.32	0.52	<0.03	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
	91	93.53	22.73	70.80	10/12/2006	98	NR	<0.27	<0.39	<0.26	<0.24	1.70	<0.33	<0.31	NR	<0.39	<0.30	6.70	1.80	3.00	<0.29	4.20	3.40	1.20	3.10	<0.2	<0.3	<0.060	<0.090	<0.080	0.121	<0.100	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.120	<0.110	<0.110	<0.100
		93.53	18.54	74.99	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		93.53	19.49	74.04	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		93.53			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		93.53	19.77	73.76	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-2					9/19/2005	NA	<7.6	<0.31	0.39	0.64	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.72	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
					11/3/2005	NA	<7.6	<0.31	<0.35	<0.32	0.72	<0.26	<0.31	<0.29	<2.7	<0.32	0.54	<0.03	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
	92.7	94.85	19.41	75.44	10/12/2006	218	NR	<0.27	<0.39	<0.26	<0.24	1.2	<0.33	<0.31	NR	<0.39	<0.30	4.7	<0.36	1.60	<0.29	2.2	1.8	<0.30	<0.78	<0.2	<0.3	<0.060	<0.090	<0.080	0.167	<0.100	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.120	<0.110	<0.110	<0.100
		94.85	17.29	77.56	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		94.85	17.51	77.34	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		94.85			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		94.85	17.78	77.07	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-3					9/19/2005	NA	30	<0.31	0.42	0.65	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.60	<0.27	<0.24	<0.28	<0.32	0.94	0.90	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
	91.4	93.83	23.38	70.45	11/2/2005	NA	<7.6	<0.31	<0.35	<0.32	0.71	<0.26	<0.31	<0.29	<2.7	<0.32	0.52	<0.03	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
		93.83	19.04	74.79	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		93.83	19.96	73.87	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		93.83			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		93.83	20.25	73.58	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-4	91.5	94.41	Product		9/19/2005	NA		0.98	0.42	0.60	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	0.56	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA		NA														
		94.41	Product		11/3/2005	NA	Product																			NA		NA														
		94.41	Product		10/12/2006	NA	Product																			NA		NA														
		94.41	19.37	75.04	2/6/2009	NA	NA	<0.50	NA	NA	NA	48	NA	NA	NA	<0.46	NA	110	NA	NA	<0.50	76	24	NA	26	NA		9.4	18	190	260	8.3	<0.033	<0.10	<0.12	9.6	170	38	<0.065	180	52	100
		94.41	Product		8/24/2009	NA	NOT ANALYZED																			NA		7.3	9.7	220	320	20	<0.034	<0.10	<0.13	6.1	81	36	1.4	160	94	99
		94.41	Product		11/18/2009	NA	NOT ANALYZED																			NA		48	45	760	1300	400	<0.27	<0.41	<1.0	35	480	130	1.5	310	290	200
		94.41	Product		4/22/2009	NA	NOT ANALYZED																			NA		4.1	3.9	120	92	11	<0.032	<0.098	<0.12	1.2	34	13	<0.062	68	18	110
		94.41	Product		7/21/2010	NA	NOT ANALYZED																			NA		<14	<1.6	420	590	<1.9	<1.3	<4.1	<5.1	<1.7	<3.4	96	<2.6	70	130	<1.9
MW-5					9/19/2005	NA	35	<0.31	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	2.80	<0.32	0.85	<0.27	<0.24	<0.28	<0.32	<0.25	0.98	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
					11/3/2005	NA	<7.6	3.40	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	<2.7	0.74	1.60	0.42	<0.24	<0.28	0.37	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
	93.2	95.45	25.21	70.24	10/12/2006	85	NR	<0.27	<0.39	<0.26	<0.24	0.83	<0.33	<0.31	NR	<0.39	<0.30	3.2	<0.36	0.62	<0.29	1.3	1.1	<0.30	<0.78	<0.2	<0.3	<0.060	<0.090	<0.080	<0.110	<0.100	0.305	0.114	0.143	0.057	<0.120	<0.120	0.129	<0.110	<0.110	<0.100
		95.45	21.74	73.71	2/6/2009	NA	NA	<0.25	NA	NA	NA	<0.22	NA	NA	NA	<0.23	NA	<0.50	NA	NA	<0.25	<0.25	<0.19	NA	<0.39		NA	<0.40	<0.046	<0.39	<0.38	<0.054	<0.039	<0.12	<0.15	<0.050	<0.099	<0.076	<0.076	<0.49	<0.037	<0.054
		95.45	20.74	74.71	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		95.45	21.63	73.82	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		95.45			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		95.45	20.78	74.67	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-6	91.87	91.55	20.88	70.67	11/2/2005	NA	<7.6	2.10	<0.35	<0.32	0.68	<0.26	0.66	0.45	<2.7	<0.32	0.63	0.51	<0.24	6.40	<0.32	0.57	0.66	<0.32	0.81	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
		91.55	16.56	74.99	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		91.55	17.69	73.86	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		91.55			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		91.55	17.98	73.57	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-7	91.98	91.55	20.90	70.65	11/2/2005	NA	<7.6	2.80	<0.35	<0.32	0.80	<0.26	<0.31	<0.29	<2.7	0.75	0.70	<0.03	<0.31	<0.28	0.42	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
					8/24/2009																																					
MW-8	91.82	91.42	20.90	70.52	11/2/2005	NA	<7.6	1.20	<0.35	<0.32	0.79	<0.26	<0.31	<0.29	<2.7	<0.32	0.39	<0.03	<0.24	2.40	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	<0.010	<0.100	<0.100	<0.030	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100	<0.030	<0.100	<0.100
		91.42	16.77	74.65	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		91.42	17.67	73.75	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		91.42			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		91.42	18.00	73.42	7/21/2010	NA	NOT ANALYZED																			NA		NA														

Table 3: Groundwater Sample Analytical Results
Thelen Sand and Gravel, Inc. - Lange Road Pit
Genoa City, Wisconsin

							VOCs (ppb)																			Metals (ppb)		PAHs (ppb)														
Sample #	Surface Elevation (ft)*	Well Elevation (ft)*	Depth to Water (ft)*	Water Elevation (ft)*	Date Collected	DRO	Acetone	Benzene	1,3-Dichloropropane	trans-1,3-Dichloropropene	Chloroform	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	2-Butanone (MEK)	MTBE	Methylene Choride*	Naphthalene	n-Butylbenzene	sec-Butylbenzene	Toluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Chlorotoluene	Xylene	Cadmium	Lead	Acenaphthene	Anthracene	1-Methylnaphthalene	2-Methylnaphthalene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Chrysene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene
MW-9					11/2/2005	NA	<7.6	1.30	<0.35	<0.32	0.74	<0.26	<0.31	0.30	<2.7	0.66	0.63	<0.27	<0.24	<0.28	0.35	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	NA															
	92.23	91.77	21.29	70.48	10/12/2006	629	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	<2.7	<0.39	<0.30	<0.75	<0.36	2.7	<0.29	<0.30	<0.34	<0.30	<0.78	<0.2	<0.3	<0.060	<0.090	<0.080	<0.110	<0.100	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.120	<0.110	<0.110	<0.100
		91.77	17.13	74.64	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		91.77	18.08	73.69	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		91.77			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		91.77	18.36	73.41	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-10	92.08	91.68	Product		10/12/2006	NA	Product																			NA		NA														
		91.68	20.50	71.18	2/6/2009	NA	NA	<0.25	NA	NA	NA	<0.22	NA	NA	NA	<0.23	NA	5	NA	NA	<0.25	0.95	<0.19	NA	<0.39	NA		2.2	12	17	26	4.2	<0.033	<0.10	<0.12	8.6	100	12	<0.064	7.9	37	61
		91.68	16.47	75.21	8/24/2009	NA	NOT ANALYZED																			NA		1.2	6.2	5.8	16	25	<0.034	<0.10	<0.13	3.1	50	6.1	<0.065	15	29	22
		91.68	17.31	74.37	11/18/2009	NA	NOT ANALYZED																			NA		1.5	6.6	14	21	40	<0.034	<0.10	<0.13	10	200	5.9	<0.065	9	39	38
		91.68			4/22/2010	NA	NOT ANALYZED																			NA		0.67	1.6	8.3	7.7	0.52	<0.033	<0.10	<0.12	0.31	5.8	2.7	<0.064	9.6	6.8	26
		91.68	16.82	74.86	7/21/2010	NA	NOT ANALYZED																			NA		0.74	<0.20	5.4	20	<0.23	<0.17	<0.52	<0.63	<0.22	<0.43	5.3	<0.33	8.7	10	<0.23
MW-11	91.09	90.55	19.90	70.65	10/12/2006	47	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	NR	<0.39	<0.30	2.6	<0.36	<0.34	<0.29	<0.30	<0.34	<0.30	<0.78	<0.2	<0.3	<0.060	<0.090	<0.080	<0.110	<0.100	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.120	<0.110	<0.110	<0.100
		90.55	16.02	74.53	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		90.55	16.93	73.62	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		90.55			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		90.55	17.18	73.37	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-12	90.9	93.96	23.02	70.94	10/12/2006	4,920	NR	<0.27	<0.39	<0.26	<0.24	1.0	4.1	2.10	NR	<0.39	<0.30	4.9	1.8	7.4	<0.29	3.2	1.4	1.6	<0.78	<0.2	<0.3	<0.060	<0.090	1.58	<0.110	<0.100	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.120	<0.110	<0.110	<0.100
		93.96	18.82	75.14	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		93.96	19.89	74.07	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		93.96			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		93.96	20.12	73.84	7/21/2010	NA	NOT ANALYZED																			NA		NA														
MW-13	91.1	93.69	22.84	70.85	10/12/2006	191	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	NR	<0.39	<0.30	2.7	<0.36	1.0	<0.29	1.4	<0.34	<0.30	<0.78	<0.2	<0.3	<0.060	<0.090	<0.080	<0.110	<0.100	<0.020	<0.020	<0.060	<0.020	<0.120	<0.120	<0.120	<0.110	<0.110	<0.100
		93.69	18.58	75.11	8/24/2009	NA	NOT ANALYZED																			NA		NA														
		93.69	19.67	74.02	11/18/2009	NA	NOT ANALYZED																			NA		NA														
		93.69			4/22/2010	NA	NOT ANALYZED																			NA		NA														
		93.69	19.93	73.76	7/21/2010	NA	NOT ANALYZED																			NA		NA														
TW-1	NA				3/10/2008	NA	NR	<0.20	<0.25	<0.20	<0.20	<0.50	<0.20	<0.20	NR	<0.50	<1.0	<0.25	<0.20	<0.25	0.44	<0.20	<0.20	<0.50	<0.50	NA		<0.43	0.096	<0.42	<0.40	<0.057	0.05	<0.13	<0.16	<0.053	0.11	<0.081	<0.081	<0.52	0.13	<0.057
TRIP	NA				9/19/2005	NA	<7.6	<0.27	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	1.30	<0.27	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA	<0.0528	NA															
	NA				11/3/2005	NA	<7.6	<0.27	<0.35	<0.32	<0.54	<0.26	<0.31	<0.29	<2.7	<0.32	2.50	0.480	<0.24	<0.28	<0.32	<0.25	<0.26	<0.32	<0.73	NA		NA																
	NA				10/12/2006	NA	NR	<0.27	<0.39	<0.26	<0.24	<0.25	<0.33	<0.31	NR	<0.39	<0.30	<0.75	<0.36	<0.34	<0.29	<0.30	<0.34	<0.30	<0.78	NA		NA																
	NA				3/10/2008	NA	NR	<0.20	<0.25	<0.20	<0.20	<0.50	<0.20	<0.20	NR	<0.50	<1.0	<0.25	<0.20	<0.25	<0.20	<0.20	<0.20	<0.50	<0.50	NA		NA																
	NA				2/6/2009	NA	NA	<0.25	NA	NA	NA	<0.22	NA	NA	NA	<0.23	NA	<0.50	NA	NA	<0.25	<0.25	<0.19	NA	<0.39	NA		NA															
	NA				4/22/2010																					NA		NA															
	NA				7/21/2010																					NA		NA															
NR 140 Enforcement Standard (ES)						NS	1000	5	NS	0.2	6	700	NS	NS	NS	60	5	40	NS	NS	1,000	480		NS	10,000	5	15	NS	3000	NS	NS	NS	0.2	0.2	NS	0.2	400	400	NS	40	NS	250
NR 140 Preventive Action Limit (PAL)						NS	200	0.5	NS	0.02	0.6	140	NS	NS	NS	12	0.5	8	NS	NS	200	96		NS	1,000	0.5	1.5	NS	600	NS	NS	NS	0.02	0.02	NS	0.02	80	80	NS	8	NS	50

NOTES:

All results are in parts per billion (ppb) unless otherwise noted
Bold samples equal or exceed the Enforcement Standards
Italic samples equal or exceed the Preventive Action Limits

(ft bgs) = feet below ground surface
* = laboratory artifact/contaminant
Only samples detected in at least one sample are shown in this table.

DRO = diesel range organics
VOCs = volatile organic compounds
PAHs = polynuclear aromatic hydrocarbons

NA = not analyzed or not applicable
NR = not reported
NS = no standard established