PIONEER
ENVIRONMENTAL, INC.

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ERS DIVISION

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

February 6, 2009

Mr. Jeff Ackerman
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Madison, WI 53711-5397

**RE:** **SITE CLOSURE/GIS REGISTRY PACKAGE** // Kwik Trip Store # 768, 537 Ridge Street, Mineral Point, WI (BRRTS # 03-25-113363 & PECFA # 53565-1440-35)

Dear Mr. Ackerman

On behalf of Kwik Trip Stores, Pioneer Environmental Inc. (Pioneer) is submitting this Site Closure request. The attached documents include a WDNR Closure Packet and a GIS Registry Packet. Also, along with this submittal is the NR 749 Review Fee and GIS Registry Fee. If you have any questions or concerns, please call or email to discuss.

Very truly yours,

PIONEER ENVIRONMENTAL INC.

Joseph A. Drapeau
Senior Hydrogeologist, P.G.

Attachment: WDNR Closure Packet
GIS Registry Packet
GIS Registry Fee – KT Check

C Mr. Troy Batzel, Kwik Trip Stores

Alan 4. — Comm

WDNR BRRTS CASE # 03 - 25 - 113363 WDNR SITE NAME : Kwik Trip Store 768

# WISCONSIN DEPARTMENT OF NATURAL RESOURCES
## Bureau for Remediation and Redevelopment

This form is intended to provide instructions and a list of information that must be submitted for evaluation for case closure, each time a request is made. 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.].*

In order to expedite the closure process, provide a complete and accurate closure package according to the following instructions, each time a closure decision is requested:

- Submit the Case Closure Request form and the required attachments as a stand-alone, **unbound** package. Include all information requested per section, as appropriate to the site, in the order shown. Include all attachments per section, as appropriate. Do not attach previously submitted reports. Correctly reference any reports in the case summary, as applicable.
- Include fees with this request at the time it is submitted to the department in order for the application to be considered complete.
- Specify your selected closure option.
- **Use forms 4400-245 and 4400-246 for Section H.** Include all **GIS Registry information** (in Section H) as a stand-alone document (*do not refer to materials in other attachments*). Include copies of all off-source property and ROW notifications.
- Place a √ (attached) or NA (not applicable) in the blank next to each attachment, in each section.
- Include a maintenance plan, if it is required for the implemented remedial action.
- **Maps for the GIS Registry may not be larger than 8.5 x 14 inches,** unless maps are submitted in electronic form in portable document format (pdf) readable by the Adobe Acrobat Reader. For electronic document submittal requirements, see http://www.dnr.wi.gov/org/aw/rr/archives/pubs/RR690.pdf.
- Prepare maps according to the applicable portions of ss. NR 716.15(2)(h)1 and 726.05(3)(a)4.d. Prepare visual aids, including maps, plans, drawings, cross sections, fence diagrams, tables and photographs according to s. NR 716.15(2)(h)1. – 4.
- **Use a bold font** on information of importance on tables, maps and figures. A **bold font (for ES exceedances)** and *italics (for PALs)* are preferred when differentiation is necessary. **Please do not use shading or highlights** on any of the analytical tables (per s. NR 726.05(3) and maps as the shading obscures the information that is scanned for inclusion in the GIS Registry.
- Put multiple tables submitted for contaminated media data (eg. pre- and post-remedial data) in chronological order. Include the level of detection for results which are below the detection level (i.e. do not just list as no detect (ND)). Summaries of all data should include information collected by previous consultants. Do not submit lab data sheets unless these have not been submitted in a previous report. Tabulate all data required in s. NR 716.15(2)(g)3 in the format required in s. NR 716.15(2)(h)3.
- Document free product recovery estimates as required in s. NR 708.15, if applicable.

WDNR BRRTS CASE # 03 - 25 - 113363 WDNR SITE NAME: Kwik Trip Store 768

## Section A: Case History and Closure Pathway Selected

ATTACHMENTS:

X A brief site summary including results of all investigative activities, interim and remedial actions taken, a description of any residual soil and/or groundwater contamination and their locations, a description of any other media affected, and a description of how actual and potential impacts to receptors have been addressed.

x Site location map on USGS topographic base map.

x Site map including buildings, utilities, property lines of source property and impacted non-source properties, ground cover and supply wells, including any municipal wells. *These maps may be combined.*

x Verification of the zoning for affected properties.

INFORMATION NEEDED:

1. Site Name Kwik Trip Store 768
   Street Address: 537 ridge street
   City/Zip Code: Mineral Point, WI 53565
2. BRRTS #: 03 - 25 - 113363
3. DNR FID #: 125033370 PECFA Claim#: 53565144035
4. Responsible Party Name Kwik Trip Stores
   Mailing Address: 1626 Oak Street City/Zip Code: La Crosse, WI 54602-2107
   Phone number: 608-793-6283 Contact Person: Troy Batzel
5. Date of Incident/Discovery: 11/20/1996 Contaminant Type(s): Petroleum - Gasoline & diesel(?)
6. Quantity Released: Unknown - historical release, from past UST systems at this location
7. Land Use:
   Current: ___ Residential x Commercial ___ Industrial ___ Other
   If other, specify: ___
   Planned Post Remediation: ___ Residential x Commercial ___ Industrial ___ Other
   If other, specify: ___
8. Is a zoning change required? ___Y x N
   If so, has it been completed for post remedial land use? ___Y x N
9. 0.37 Acres ready for use (The total area in acres of all adjacent tax parcels owned by the same entity on the site where the contamination originated, rounding fractions to nearest .5 acre and noting >100 acres for acreages above 100 acres. For multiple discharges that are cleaned up concurrently, count the acres once.)
10. Geographic Coordinates (meters/ WTM83/91) E 504587 N 265119
11. Method Used to Obtain Geographic Coordinates:
    ___ On-site using GPS equipment, converted or projected into WTM83/91 coordinates
    ___ Used county web map site to get coordinates
    X Used RR Sites Map web site to get WTM83/91 coordinates
    ___ Other (specify): ___
12. *Groundwater Contamination Remaining (>ES):
    On Source Property X Y ___ N
    Off Source Property x Y ___ N (Right-of-way)
13. *Residual Soil Contamination > Generic or Site-Specific RCL:
    On Source Property ___Y x N
    Off Source Property ___Y x N
14. Contamination in Right of Way: x Y ___ N
15. Closure Pathway Selected: check all that apply

| *CLOSURE via NR 726* | |
|---|---|
| Soil | Groundwater |
| ___< s. NR 720.09/720.11 Generic RCLs | ___< s. NR 140.10 Table 1 & Table 2 Values |
| ___s. NR 720.19(2) Soil Performance Standards | ___s. NR 140.28(2) PAL Exemption |
| ___s. NR 720.19(4) Groundwater Pathway | X s. NR 726.05(2)(b), ≥ ES Natural Attenuation |
| ___s. NR 720.19(5) Direct Contact | |

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| | |
|---|---|
| ___s. NR 720.19(6) Other Pathways | |

| | |
|---|---|
| *CLOSURE via NR 746 and NR 726* | |
| Petroleum Storage Tank **Soil** Options for Closure: | |
| X s. NR 746.07 Requirements Met-Post Investigation | |
| ___s. NR 746.08 Requirements Met-Post Remed. | |
| Petroleum Storage Tank **GW** Options for Closure: | Petroleum Storage Tank **GW** Options for Closure: |
| Within Permeable Material: | Within Low Permeability Material: |
| ___s. NR 746.07(3) ≥PAL <ES, Post Investigation | ___s. NR 746.07(2), Post Investigation |
| X s. NR746.07(4) >ES, Post Investigation | ___s. NR 746.08(2), Post Remediation |
| ___s. NR 746.08(3)≥ PAL, <ES, Post Remediation | |
| ___s. NR 746.08(4) >ES, Post Remediation | |

## Section B: Receptor Summary

ATTACHMENTS:

X Notification(s) regarding contamination in ROW
NA Notification(s) to off-source property owners regarding sampling results

INFORMATION NEEDED:

1. Identify **all** pre-remedial actual receptors, the assessed risk and their locations (e.g., both on- and off-site utility corridors, basements or sumps of nearby buildings, direct contact threat from soil, water supplies, surface waters, sediments, vapors, etc.) *For definitions, refer to s. NR 700.03 (47), Wis. Adm. Code.*
   Based on RI data, petroleum release was related to previous UST piping system, located in the vicinity of the current pump islands. It appeared that there was mostly a vertical migration component. Depth of groundwater is roughly 40 feet bls, thus impacts to utility trenchs, either by vapor or groundwater is unlikely. The City of Mineral Point has two Muni Wells at 1500-1800 ft from the site, these are not likely impacted by this release, based on distance and well depths(750ft).
2. Have the remedial actions addressed the potential or actual impacts to these receptors?
   X Y (Details in the case history summary (Section A)).
   ___N If no, please identify the nature of the remaining risk and the receptor at risk, if any:

## Section C: Soil Investigation Information

ATTACHMENTS:

X Complete soil data summary table of field screening and laboratory analytical results, including all detects, regardless of ch. NR 720 standards, with dates, sample locations, depths and detection limits. Identify exceedances.
X Map(s) of all pre-remedial soil sampling locations: depicting all soil sample locations relative to site facilities. Note in bold font those sample locations that exceed ch. NR 720 RCLs (including free product location) and delineate the extent of contamination.
X Pre-remedial geologic cross-sections; including geology, source location(s), extent of soil and groundwater contamination, free product location/depth, soil sample locations, water table elevation, and bedrock elevation, if encountered.

INFORMATION NEEDED:

1. Extent Defined? X Y ___N If not, explain why. ___
2. Soil Type(s): Silty-sand and some clay, and weathered limestone material
3. Depth of Contamination: Top: 2 feet Bottom: 4-6 feet - bedrock

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4. Type of Bedrock: Limestone and Dolomites Depth to Bedrock: 2-6 feet - varies across the site
5. Is Any Contaminated Soil (Unsaturated or Saturated) in Contact With the Bedrock? X Y ___ N
6. Measurable Free Product? X Y ___ N Depth/Location: MW-3 (Fair St) immediately downgradinet of KT 768

## Section D: Soil Remediation Information

ATTACHMENTS:

X Map showing remediated area (for example, excavation limits or area influenced by SVE) and locations of post-remediation soil samples (if any). This map should show the locations and extent of residual soil contamination exceeding ch. NR 720 RCLs. These samples should be noted in bold font. *A copy of the map(s) from Section H(form 4400-245) may be used.*

X Soil disposal documentation - Historical info included w/ RI Report - Add. RI disposal info attached

NA NR 720.19 analysis, assumptions and calculations for site specific RCLs (SSRCLs) , with justification

NA Calculations and results of EPA Soil Screening Level Model.

NA Post-remedial cross-section(s) with post remedial soil sampling results, if soil removal or treatment has occurred. Identify sample results and depths. *A copy of the cross-section(s) from Section H(form 4400-245) may be used or you may refer to the cross-section(s) in Section E, as appropriate.*
X see Section E

INFORMATION NEEDED:

1. Remedial Action Completed? X Y ___ N
2. Were immediate or interim actions conducted? ___ Y X N If yes, what action was taken?
3. Brief description of remedial action taken:
   During piping upgade approximently 60 tons of petroleum contaminated soil was removed.
4. Were soils excavated? X Y ___ N
   Quantity: Apprx. 60 tons Disposal Method: Biopile/Landfill - WM - Mallard Ridge
5. Final Confirmation Sample Collection Methods:
   Based on reports, confirmation sampling was not taken, likely due to presence of bedrock near the surface.
6. Final Soil/Drill Cuttings Disposal Location:
   Several drilling events - Initial event went to WM Mallard Ridge,as did the 2nd phase (2nd phase disposal information is attached)
7. Estimated volume and depth of in situ soils exceeding ch. NR 720 Table RCLs or Site Specific RCLs:
   Approx. 180 cubic yards in the vicinity of the Pump Island Canopy
8. Estimated volume and depth of in situ soils exceeding ch. NR 746 Table 1 or Table 2 or Site Specific RCLs (*underground petroleum tank systems, as defined in ch. NR 746 only*):
   Based on RI data, this material was removed during the piping upgrade excavation.
9. s. NR 720.19 Analysis? ___ Y X N
   ___ Performance Standard -NR 720.19(2)
   ___ SSRCL - NR 720.19(3) and (4),(5) or ( 6)
10. If the remedy includes a Soil Performance Standard, what type? X not applicable
    ___ Cap ___ Soil ___ Building ___ Natural Attenuation of Groundwater ___ Other
    Specify other: ___
11. Will the maintenance of the SPS be consistent with the planned post remediation land use?
    ___ Y NA N If No, please explain: ___
12. Is the EPA Soil Screening Level Model used as justification for closure of sites with residual contaminated soils?
    ___ Y X N Are the input numbers used: ___ Site Specific , or ___ WI Defaults?

## Section E: Groundwater Information

ATTACHMENTS:

X Table identifying all contaminants, summarizing all pre- and post-remediation groundwater analytical results, with sample collection dates *(prepared in accordance with guidance document RR-628)*

X Groundwater sample location map showing the site facilities and all monitoring wells, sumps, extraction wells, and potable and non-potable wells.

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X Isoconcentration map(s) when included as part of the site investigation or map(s) of the horizontal extent of contamination based on most recent data. *A copy of the map(s) from Section H (from 4400-245) may be used.*

X A map showing groundwater flow direction(s) and summarizing the maximum variation in flow direction. *Multiple maps may be used. A copy of the map(s) from Section H (form 4400-245) may be used.*

X A table summarizing all groundwater elevations, with dates, and top and bottom elevations of well screens. (*Wells are to be referenced to national geodetic survey datum, as per NR 141.065(2)).*

NA Graphs and statistical analyses which demonstrate the dynamics of the groundwater plume, for sites requesting closure using natural attenuation that meet the criteria s. NR 726.05(2)(b) or of s. NR 746 (permeable soils). *Refer to WDNR publication RR-614 for guidance.*

X Geologic cross-sections showing extent of residual soil and/or groundwater contamination, as applicable. *A copy of the cross-section(s) from Section H, (form 4400-245) may be used.*

INFORMATION NEEDED:

1. Extent of Contamination Defined? X Y ____ N ____ N/A
2. Remedial Action Completed? ____ Y ____ N X N/A
   Brief Description of Remedial Action Taken: ____
3. Depth(s) to Groundwater 40-70 ft. bls Flow Direction(s): historically SE (fluctuates from south to east )
4. Field Analyses? ____ Y X N
   Lab Analyses? X Y ____ N
5. 11-27 # of Sample Rounds
   8 # of Sampling Points
   8 # NR 141 Monitoring Wells Sampled
   0 # Temporary GW Sampling Points Sampled
   0 # Recovery Sumps Sampled
   0 # Municipal Wells Sampled
   0 # Private Wells Sampled
6. Was DNR notified of substances in groundwater without standards? ____ Y ____ N X N/A
   If yes, how many? ____ What substances? ____
7. Preventive Action Limit currently exceeded? X Y ____ N If yes, identify location(s)
   MW-1, 3, 7 & 8 (See GW Table for details)
8. Enforcement Standard currently exceeded? x Y ____ N If yes, identify location(s)
   MW-1, 3 & 7 (See GW Table for details)
9. Measurable free product detected? X Y ____ N Pre-remediation
   X Y ____ N Post-remediation
10. Was free product remediated? X Y ____ N
    Method: Interm action consisted of periodic bailing. Bid to Scope phase used passive hydrophobic socks between site visits, & then hand bailing of free phase petroleum product (too deep for vacuum extraction) and then purging petroleum contaminated GW by pump, allowing the water table to recharge (repeat pumping 3 times)
    Purge water or free product-groundwater mixture disposal method?
    Petroleum contaminated water and free product was containerized in 55 gallon drums, Saturated socks were also containerized in a barrel. (Disposal Docs attached)
11. Potable wells within 1200 feet of site? ____ Y X N
    Have they been sampled? ____ Y X N
    Type (i.e. municipal, private, etc.)? Municipal wells # 1 & # 2 are located 1500-1800 feet from site
    [NOTE: Include wells on *groundwater well location map* ]
12. Has DNR been provided with all results of private well sampling? ____ Y ____ N NA - Not sampled
13. Have well owners/occupants been notified of results? (*Sec. B Attachments*) ____ Y ____ N NA - Not Sampled
    (*Results also need to be sent to the DNR Water Supply Specialist)*
14. Are there any monitoring wells that have not been located for abandonment? ____ Y X N
15. Identify the property address(es) where the missing well is located: ____

## Section F. Other Contaminated Media Information:

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ATTACHMENTS:
NA Table of analytical results for all contaminants for media other than soil or groundwater

INFORMATION NEEDED:
1. Have other media been impacted (either on-site or off-site e.g. sediment, utilities, air)? ____Y X N
   Briefly describe type and extent of **all** contamination found in media other than soil or groundwater:
2. Remedial action completed? ____Y ____N X N/A
   Brief description of remedial action taken:
3. # of Post Remedial Sample Rounds: 0
   # of Sampling Points: 0
   Field Analyses? ____Y ____N
   Lab Analyses? ____Y ____N

## Section G. Associated Site Closure Information:

ATTACHMENTS:
NA Construction documentation or as-built report for any constructed remedial action or portion of, or interim action specified in s. NR 724.02(1), in accordance with s. NR 724.15.
NA Maps and photos documenting the cap area, and/or integrity of the cap, with date.
NA Description of any soil performance standard cover system used, including a description of how it meets the requirement to be protective until residual contaminant concentrations no longer pose a threat to public health, safety, welfare or the environment, per s. NR 720.19(2), s. NR 722.09(2) and (3).
NA Maintenance plan associated with 292.12 land use control or for performance standard remedy. (per ss. NR 720.19(2) and 724.13(2))

INFORMATION NEEDED:
1. Enforcement actions closed out? ____Y ____N X N/A
2. Permits closed out? ____Y ____N X N/A
3. Describe how the following pathways are protected:
   a) Direct Contact Pathway: Based on RI report - soils in 0-4 feet bls with petroleum contamination were removed during the piping upgrade. This are is located in the same vicinity of the existing pump islands/UST system, and is below concrete and asphalt pavement.
   b) Groundwater: Petroleum contamination remains within the weathered limestone and fractures in the more competent limestone, below were the soils were excavated. This area is below the existing pavement and canopy, thus minimizing infiltration & flushing of the contaminants to groundwater table.
   c) Other:

**Section H. Required GIS Registry Information:** Use form 4400-245, GIS Registry Checklist, and form 4400-246, Impacted Off-Source Property Information. Submit these forms and their attachments with this closure request form.

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I certify that, to the best of my knowledge, the information presented on and attached to this form is true and accurate. This recommendation for case closure is based upon all available data as of 12/31/08 (date). I have read the Case Closure Request Form instructions and all required information has been included.

**Form Completed By:** _____ Feb 6, 2009
(Signature) (Date)

X **$750.00 Closure Review Fee Attached**
X **$250.00 GIS Registry Maintenance Fee Attached (GW and/or monitoring well to be abandoned)**
X **$200.00 GIS Registry Maintenance Fee Attached (Soil)**

Printed Name: JOSEPH A. DRAPEAU

Company Name: PIONEER ENVIRONMENTAL INC

Email address: jdrapeaupioneer@rxn.com

If not site owner, relationship to site owner: Environmental Consultant

Address: 203 1/2 East Main Street City/Zip Code Mount Horeb, WI 53572

Telephone Number: ( 608 ) 437 - 3900 FAX Number: ( 608 ) 437 - 3900

Source Property Owner's Name (if different from person conducting the cleanup):

Kwik Trip Stores Attn: Troy Batzel

Address: 1626 Oak Street City/Zip Code La Crosse WI 54602-2107

Telephone Number: ( 608 ) 793 -6283 Email Address: tbatzel@kwiktrip.com

Environmental Consultant (if different than above): NA

Address: _____ City/Zip Code _____

Email Address: _____

Telephone Number: ( ) _____ FAX Number: ( ) _____

WDNR BRRTS CASE # 03 - - 25 -- 113363 WDNR SITE NAME : Kwik Trip Store 768

**FOR DEPARTMENT USE ONLY**

PROJECT MANAGER: _____ Date Reviewed: _____

( ) **Approved** ( ) **Denied** ( ) **Sent to Committee** (Date: _____)

CLOSURE COMMITTEE DECISION ON CLOSURE:

**FIRST COMMITTEE REVIEW DATE:** _____ ( ) **Approved** ( ) **Denied**

| _____ | _____ | _____ | _____ |
|---|---|---|---|
| (Signature) | (Signature) | (Signature) | (Signature) |

**COMMITTEE RECOMMENDATION:**

_____ **Closure Approved With:**

- _____ No Restrictions
- _____ Listing on GIS Registry due to Groundwater impacts
- _____ Listing on GIS Registry due to Soil impacts
- _____ Zoning Verification
- _____ Well Abandonment Documentation
- _____ Soil Disposal Documentation
- _____ NR 140 Exemption For: _____
- _____ VPLE Insurance needed
- _____ ROW notification needed
- _____ Cap required, maintenance plan needed for cap
- _____ Structural Impediment – notification and investigation needed if change in land use
- _____ Maintain Zoning - Industrial Land Use soil standards applied
  - notification needed if change in land use
- _____ Site Specific Closure Letter
- _____ Deed Restriction
- _____ Deed Notice
- _____ Other

Conditions/Comments: _____

_____

_____

_____

_____ **Closure Denied, Needs More:**

- _____ Investigation
- _____ Groundwater Monitoring
- _____ Soil Remediation
- _____ Groundwater Remediation
- _____ Documentation of Soil Landspreading or Biopile Destiny

Specific Comments:

WDNR BRRTS CASE # 03 - 25 - 113363 WDNR SITE NAME : Kwik Trip Store 768

**FOR DEPARTMENT USE ONLY**

PROJECT MANAGER: _____ Date Reviewed: _____

( ) **Approved** ( ) **Denied** ( ) **Sent to Committee** (Date: _____)

CLOSURE COMMITTEE DECISION ON CLOSURE:

**SECOND COMMITTEE REVIEW DATE:** _____ ( ) **Approved** ( ) **Denied**

| _____ | _____ | _____ | _____ |
|---|---|---|---|
| (Signature) | (Signature) | (Signature) | (Signature) |

**COMMITTEE RECOMMENDATION:**

_____ **Closure Approved With:**

- _____ No Restrictions
- _____ Listing on GIS Registry due to Groundwater impacts
- _____ Listing on GIS Registry due to Soil impacts
- _____ Zoning Verification
- _____ Deed Restriction
- _____ Deed Notice
- _____ Site Specific Close Out Letter
- _____ Well Abandonment Documentation
- _____ Soil Disposal Documentation
- _____ NR 140 Exemption For: _____
- _____ VPLE Insurance needed
- _____ Other Conditions/Comments: _____

_____

_____

_____

_____ **Closure Denied, Needs More:**

- _____ Investigation
- _____ Groundwater Monitoring
- _____ Soil Remediation
- _____ Groundwater Remediation
- _____ Documentation of Soil Landspreading or Biopile Destiny
- _____ Specific Comments: _____

_____

_____

_____

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION A - ATTACHMENTS

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

# CASE SUMMARY: SITE CLOSURE/GIS REGISTRY PACKAGE
## Remedial Investigation and Free Product Removal
## Kwik Trip Store # 768, 537 Ridge Street, Mineral Point WI
## (BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## BACKGROUND

The site is located in the SW¼ of the SW¼ of Section 31, Township 5 North, Range 3 East on the Mineral Point, Wisconsin Quadrangle 7½-minute topographic map (Figure 1). The street address for the site is 535 Ridge Street, Mineral Point, Wisconsin 53565. The site was reportedly a historical gasoline retail business that Kwik Trip acquired in 1988. A site map is included as Figure 2.

## REMEDIAL INVESTIGATION

*1997-2003 – Conducted by Leggette, Brashears & Graham*
*2003-2005 – Conducted by Pioneer Environmental Inc.*

### Soil Evaluation

A pre-UST system upgrade soil profiling investigation, October 1996, consisting of one Geoprobe Boring, identified petroleum contaminated soil in the vicinity of the pump islands. The UST dispenser system and piping were upgraded in April 1997, where petroleum contaminated soil was identified, and approximately 60 tons of contaminated soils were removed and hauled to Mallard Ridge Landfill. Based on prior reports and tables, it appears that the soil that exceeded NR746 T1 and T2 tables were excavated and removed to a depth of 4 feet, where the excavation was restricted by weathered bedrock. Based on sample results the remaining petroleum contaminated soil was below NR720 RCLS except for the lead parameter, in several locations. The Remedial Investigation Report (LBG - March 2001) indicated that due to the relatively isolated area of petroleum contaminated soil and the presence of near surface bedrock, the remainder of the borings beyond MW-1, did not include any soil sampling.

### Groundwater Evaluation

The initial groundwater remedial investigation (1999) consisted of the advancement of six soil borings/rock drilling and installation of six monitoring wells to aid in delineating the extent of the petroleum contaminated ground water plume. A subsequent additional groundwater investigation (2003) consisting of two rock cores and two additional monitoring wells were installed.

The 2003 rock core data provided a better understanding of the competency and relative fractured density in the underlying bedrock. Basically there was 5 feet of overburden, followed by weathered limestone layer to a depth of 11-13 ft bls. Then a highly fractured limestone unit

was encountered from approximately 25 to 45 feet bls. Beneath this unit a more competent, tan colored, limestone was encountered from 45 to 57/70 feet bls. At the depth of 57 feet in RC-1 (North side of site) and 70 feet in RC2 (Southeast – down gradient of site), a more dense, less fractured, grey dolomite was encountered to the termination depth of the rock cores (85 and 95 feet bls, respectfully).

The historic groundwater elevation measurements indicating a groundwater flow direction that is predominately southeast; however flow has fluctuated from the east to south over the sampling periods. The depth to the water table on site fluctuates around 40 feet bls, while down gradient (off site) the water table appears lower in the bedrock at depths of 50-70 feet bls. The average hydraulic gradient changes from relatively steep (0.132 ft/ft) in the southern portion of the site, to relatively flat (0.011 ft/ft) in the northern portion of the site.

The historic presence of petroleum free product in MW-1 and MW-3 has been observed periodically since 1999. The dissolved petroleum contaminant plume has been monitored for nearly 20 sampling rounds in most of the wells, and has indicated the dissolved petroleum hydrocarbon plume is limited to the area near and down-gradient of the former/existing UST system.

## ADDITIONAL REMEDIAL INVESTIGATION & FREE PRODUCT REMOVAL ( BID TO SCOPE PECFA PROJECT PHASE)

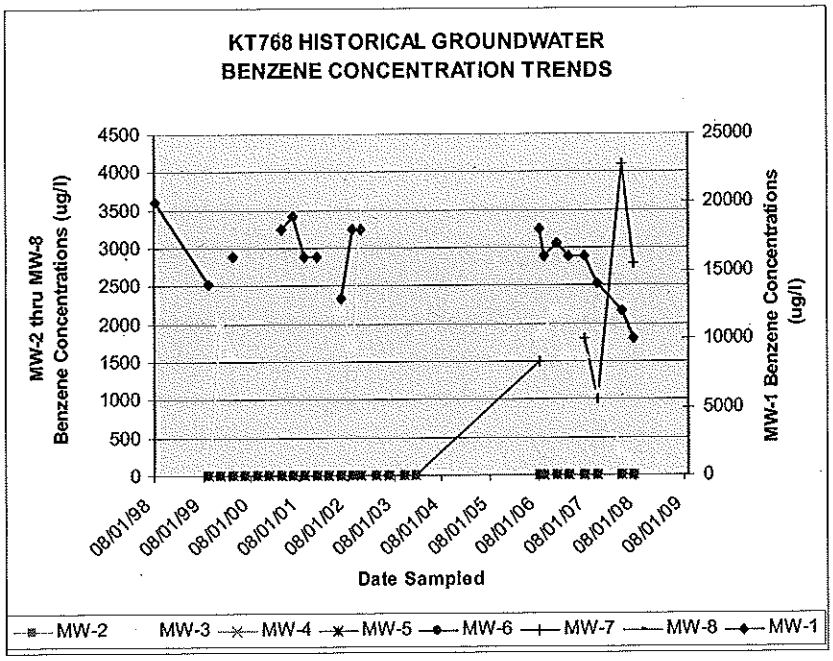
*– April 2006-December 2008 - Conducted by Pioneer Environmental Inc. :*

### Free Product / Groundwater Pumping

This Bid to Scope Project was initiated in April 2006, when 12 months of monthly free product bailing and contaminated groundwater pumping was commenced on MW-1 & MW-3. Hydrophobic filter socks were used within the wells between monthly pumping events. During these events and subsequent quarterly sampling, relatively minor free product sheen to 0.01-0.02 feet of free product was observed in MW-1, located on the Kwik Trip Property. MW-3, located in Fair Street, had free product ranging from about 4 feet in June of 2006 to 0.01 feet in March 2007 (end of monthly pumping). During the quarterly sampling with no hydrophobic filter socks present, free product had a slight presence in MW-3 from a couple hundredths to 0.25 feet, free product is usually bailed down to a sheen with 1-3 gallons of product water mixture being removed.

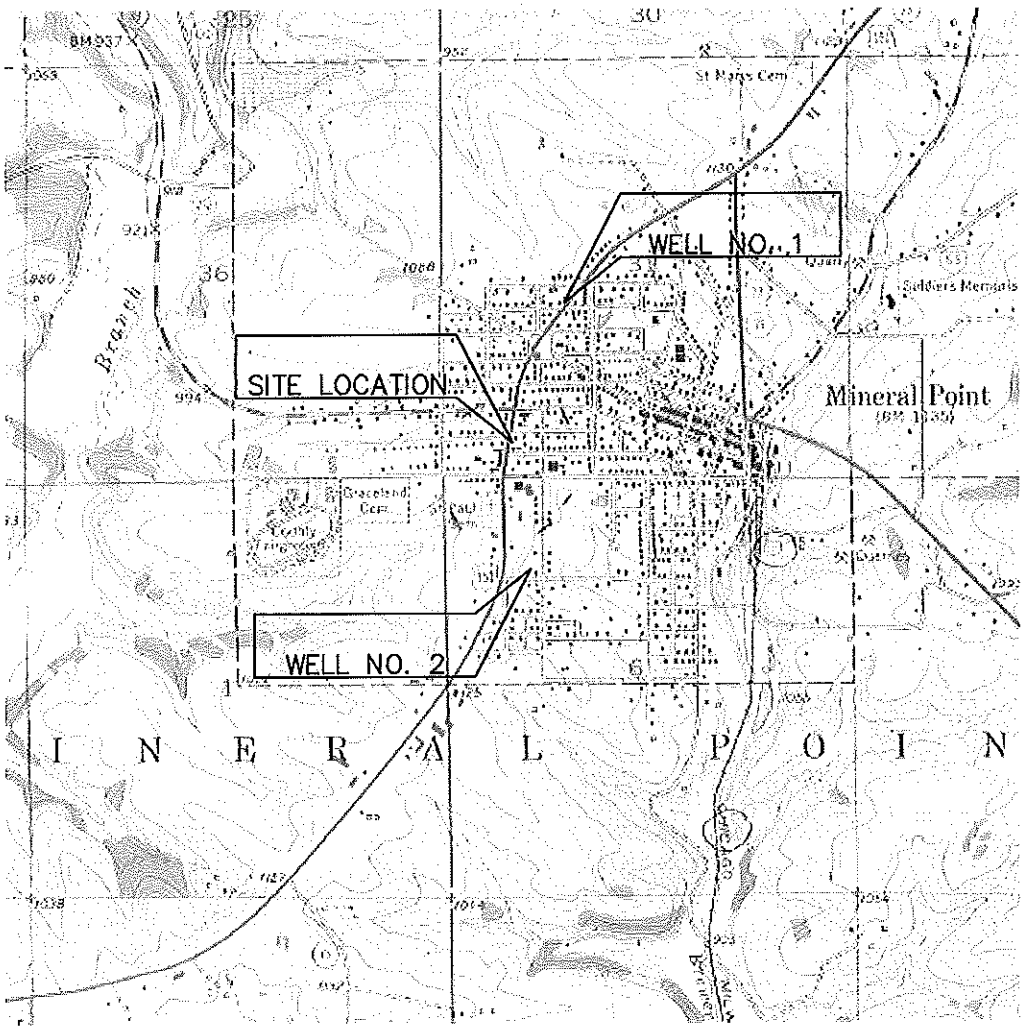
### Groundwater Monitoring

The 8 rounds of sampling have shown that 4 of the 8 monitoring wells had basically no elevated concentrations (MW-2, MW-4, MW-5 & MW-6). Based on benzene concentrations, MW-1 & MW-3 have had decreasing concentrations over time, while MW-8 had stable concentrations and MW-7 had slightly increasing concentration trends. MW-4 & MW-7 have been historically dry or with very little well volume, thus have only been sampled when water volume was sufficient. Thus the trends observed in MW-7 have been inconsistent, however, this well is screened just above and right next to MW-1 therefore the trend of groundwater concentrations in MW-7 is likely more reflective of MW-1 concentrations trends (see graph). Benzene concentrations as well as other PVOC concentrations are above NR140 ESs in MW-1, MW-3 and MW-7. The highest benzene concentration was in MW-1, 10,000 ug/l in July 2008, which is a 50% decrease since the peak concentration of 20,000 ug/l in 1998. Plume dimensions and flow directions appear to have remained relatively the same




## RECOMMENDATION/CONCLUSION

Free product in fractured bedrock is difficult to remediate, especially at the depths encountered at this site (40-50 feet bls). Based on monitoring results, the free phase petroleum hydrocarbons have decreased over time. In addition, the dissolve petroleum concentrations although relatively high, have also decreased overtime. The final closure alternative for this site will be natural attenuation with a GIS listed NR140 ES exceedence. Considering that there has been over 10 years of monitoring, with 27 sampling rounds having been collected. If Additional groundwater sampling is required, that will likely also continue to show decreasing PVOC concentrations; however, the hindrance to regulatory site closure is the free product and relatively high petroleum concentrations being located within the bedrock. The difficulty to remediate the fractured bedrock media and the depth of the contamination make further active bailing/treatment rather futile. The best active alternative would require a pumping/drawdown type system, which in bedrock would be rather expense and cost prohibited. Thus, Pioneer Environmental Inc believes the current monitoring data is sufficient at this time to approach a regulatory site closure with a GIS soil and groundwater listing.



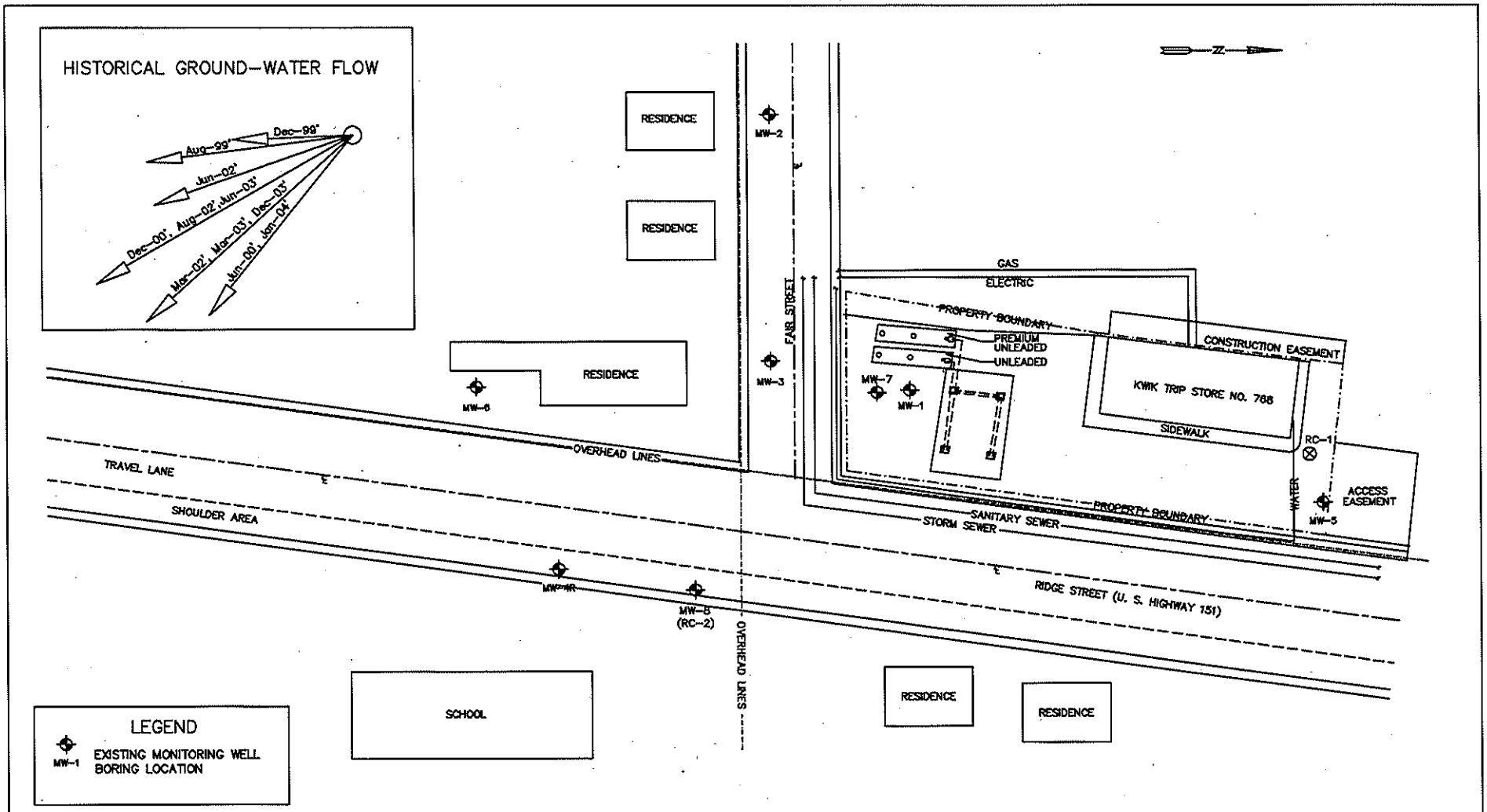

2000

SCALE IN FEET

N

U.S.G.S. TOPOGRAPHIC
MINERAL POINT, WIS
7.5 MINUTE QUADRANGLE

| | | | |
|---|---|---|---|
| DATE: 03/25/04 | KWIK TRIP, INC.<br>STATION NO. 768<br>MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC.<br>MOUNT HOREB, WI | FIGURE: |
| REVISION: 0 | | | 1 |
| DISK: PROJECTS/KT/KT768/ | | | |
| FILE: SITELOC.DWG | AREA LOCATION | | |
| DRAWN: CHECKED: | | | |


HISTORICAL GROUND-WATER FLOW
Aug-99'
Dec-99'
Jun-02'
Dec-00', Aug-02', Jun-03'
Mar-02', Mar-03', Dec-03'
Jun-00', Jan-04'
RESIDENCE
RESIDENCE
RESIDENCE
MW-2
MW-3
MW-6
FAIR STREET
GAS
ELECTRIC
PROPERTY BOUNDARY
PREMIUM UNLEADED
UNLEADED
MW-7
MW-1
CONSTRUCTION EASEMENT
KWIK TRIP STORE NO. 768
SIDEWALK
RC-1
ACCESS EASEMENT
MW-5
WATER
OVERHEAD LINES
TRAVEL LANE
SHOULDER AREA
SANITARY SEWER
STORM SEWER
PROPERTY BOUNDARY
MW-4R
MW-8 (RC-2)
RIDGE STREET (U. S. HIGHWAY 151)
OVERHEAD LINES
SCHOOL
RESIDENCE
RESIDENCE
LEGEND
MW-1 EXISTING MONITORING WELL BORING LOCATION
*ALL BUILDING LOCATIONS ARE APPROXIMATE
0 40
SCALE IN FEET
DATE: 10/8/04
REVISION: 1
DISK: PROJECTS/KT/KT768
FILE: SITELAYOUT
DRAWN:
CHECKED:
KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN
SITE LAYOUT MAP
PIONEER ENVIRONMENTAL INC
MOUNT HOREB, WI
FIGURE:
2

## Tax Assessment Details - Iowa County

| | | | |
|---|---|---|---|
| **Last Updated:** | 2007 Tax year | **Legal Description:** | |
| **Parcel Number:** | 251-0771.A | PT LOTS 7-8 | |
| **Taxpayer:** | ***Subscription Required*** | STRONG'S ALT | |
| **Mailing Address:** | PO BOX 2107<br>LACROSSE WI, 54601 | | |
| **Volume-Page:** | 374 - 328 | **Document #:** | |

This does not necessarily reflect the most recently recorded document pertaining to this property.

| | | | |
|---|---|---|---|
| **Physical Address:** | 537 RIDGE ST MINERAL POINT | | |
| **School District:** | MINERAL POINT SCH | **Total Acres:** | 0 |
| **Vocational District:** | SOUTHWEST WI TECH | **Total Land Value:** | $40,000.00 |
| **Special District 1:** | | **Total Improvement Value:** | $53,000.00 |
| **Special District 2:** | | **Total Value:** | $93,000.00 |

| Assessment Type* | Acres | Land | Improvements |
|---|---|---|---|
| Commercial | 0.00 | 40000 | 53000 |

*Assessment Type does not reflect the actual zoning of this parcel.

Print this Information | Return to Search Results

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Please contact Webmaster if you have any comments or questions about our site.

## Tax Assessment Details - Iowa County

| | | | |
|---|---|---|---|
| **Last Updated:** | 2007 Tax year | **Legal Description:** | |
| **Parcel Number:** | 251-0771.C | PT OF LOTS 6 & 7 & EASEMENT | |
| **Taxpayer:** | ***Subscription Required*** | STRONG'S ALT | |
| **Mailing Address:** | PO BOX 2107<br>LACROSSE WI, 54601 | | |
| **Volume-Page:** | 476 - 150 | **Document #:** | |

This does not necessarily reflect the most recently recorded document pertaining to this property.

| | | | |
|---|---|---|---|
| **Physical Address:** | 537 RIDGE ST MINERAL POINT | | |
| **School District:** | MINERAL POINT SCH | **Total Acres:** | 0 |
| **Vocational District:** | SOUTHWEST WI TECH | **Total Land Value:** | $90,000.00 |
| **Special District 1:** | | **Total Improvement Value:** | $195,000.00 |
| **Special District 2:** | | **Total Value:** | $285,000.00 |

| Assessment Type* | Acres | Land | Improvements |
|---|---|---|---|
| Commercial | 0.00 | 90000 | 195000 |

*Assessment Type does not reflect the actual zoning of this parcel.

Print this Information | Return to Search Results

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Please contact Webmaster if you have any comments or questions about our site.

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

**(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)**

## SECTION B - ATTACHMENTS

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

February 4, 2009

Mr. Greggory Bennett
City of Mineral Point
137 High Street
Mineral Point, WI 53565

**RE: Notification of Petroleum Contaminated Groundwater within the Right of Way – Ridge Street (Bus Hwy 151) & Fair Street)**

Dear Mr. Bennett:

On behalf of Kwik Trip Stores, Pioneer Environmental Inc. (Pioneer) is submitting this notification as part of a WDNR Site Closure Request. The Kwik Trip Store # 768 located at 537 Ridge Street, had a petroleum release prior to 1997, that has been apart of an environmental remedial investigation (summary is within the notification). The type of regulatory site closure for this site will be a GIS groundwater listing of the Kwik Trip Parcel and the City ROW.

The WDNR will be receiving this site closure package within the next several weeks. If approved, Pioneer will be contacting The City of Mineral Point, regarding the removal/abandonment of monitoring wells and patching the pavement for the wells located in Ridge Street and Fair Street.

If you have any questions or concerns, please call or email Joseph Drapeau at Pioneer or Jeff Ackerman the WDNR Project Manager at 608-275-3323.

Very truly yours,

PIONEER ENVIRONMENTAL INC.

Joseph A. Drapeau
Senior Hydrogeologist, P.G.

Attachment: Notification of Contamination within the Right-of-Way

C. Mr. Troy Batzel, Kwik Trip Stores

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

## NOTIFICATION OF CONTAMINATION WITHIN THE RIGHT OF WAY

Kwik Trip Store # 768, 537 Ridge Street, Mineral Point, WI (BRRTS # 03-25-113363 & PECFA # 53565-1440-35A)

**County:** Iowa
**Highway:** Business Route HWY 151
**Site Name:** Kwik Trip Store # 768
**Site Address:** 537 Ridge Street (Hwy 151), Mineral Point WI
**BRRTS Number:** 03-25-113363
**PECFA Number:** 53565-1440-35A
**FID Number:** -- NA --

**Owner's Name:** Kwik Trip Stores Inc
**Owner's Address:** P.O. Box 2107, 1626 Oak Street, La Crosse, WI 54602

**Consulting Firm:** Pioneer Environmental Inc
**Consultant Contact:** Joseph Drapeau
**Consultant Address:** P.O. Box 102, 203 ½ East Main Street, Mount Horeb, WI 53572
**Consultant Phone, Fax and E-mail:** 608-437-3900 (Fax & phone), jdrapeaupioneer@rxn.com

**Soil contamination? Yes/no:** NO – None in ROW
**Depth to contaminated soil:** No soil contamination in ROW, residual soil contamination in vicinity of pump islands on source property.
**Vertical extent of contaminated soil:** (e.g. from __2__ feet to __4__ feet below ground surface)
**Groundwater contamination? Yes/no :** **YES**
**Depth to water table:** 40-70 feet below ground surface

**Describe the type(s) of contamination present.** Petroleum (Gasoline) contamination related to historic release at the 537 Ridge Street property as a gasoline convenience store.

**Brief summary of cleanup activity:**

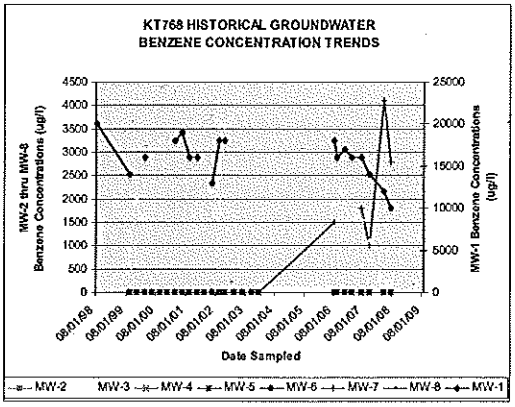
In October 1996, a pre-UST system upgrade soil profiling investigation identified petroleum contaminated soil in the vicinity of the pump islands. The UST dispenser system and piping were upgraded in April 1997, where petroleum contaminated soil was identified, and approximately 60 tons of contaminated soils were removed. Based on sample results the remaining petroleum contaminated soil was below NR720 RCLS except for the lead parameter in the immediate vicinity of the UST System.

The groundwater remedial investigation (1999-2003) consisted of the advancement of eight soil borings/rock drilling and installation of eight monitoring wells to aid in delineating the extent of the petroleum contaminated ground water plume. The historic groundwater elevation

measurements indicating groundwater at a depth of 40-70 feet below grade and a groundwater flow direction that is predominately southeast

In April 2006, 12 months of monthly free product bailing and contaminated groundwater pumping was commenced on MW-1 & MW-3. During the follow-up year of quarterly sampling, free product had a slight presence in MW-3 from a couple hundredths to 0.25 feet, free product is usually bailed down to a sheen with 1-3 gallons of product water mixture being removed.

Since 1997 there has been 27 rounds of sampling have shown that 4 of the 8 monitoring wells had basically no/slightly elevated concentrations. Based on benzene concentrations, MW-1 & MW-3 have had decreasing concentrations over time, while MW-8 had stable concentrations and MW-7 had slightly increasing concentration trends. Benzene concentrations as well as other PVOC concentrations are above NR140 ESs in MW-1, MW-3 and MW-7. The highest benzene concentration was in MW-1, 10,000 ug/l in July 2008, which is a 50% decrease since the peak concentration of 20,000 ug/l in 1998. Plume dimensions appear to have remained relatively the same

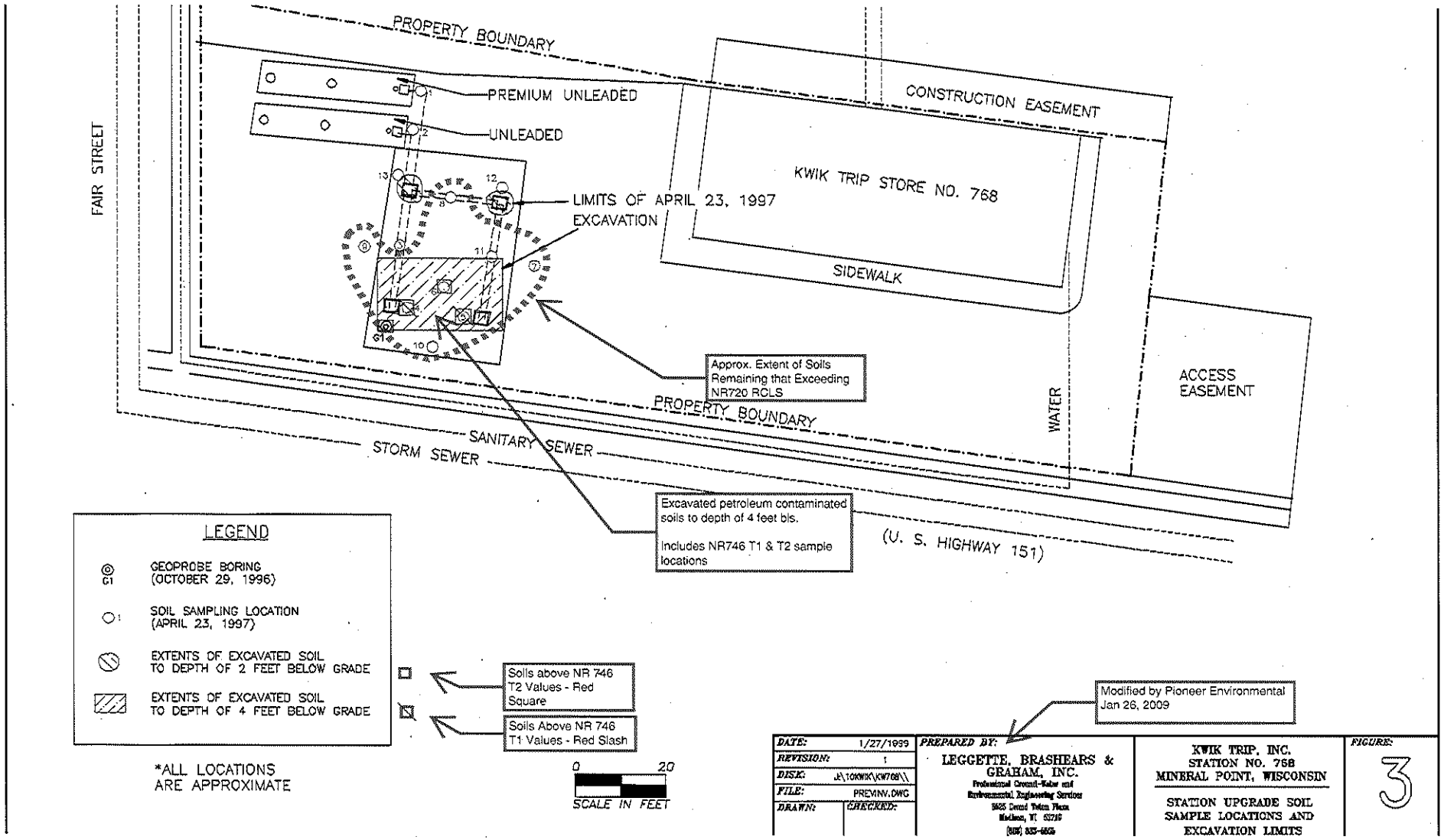


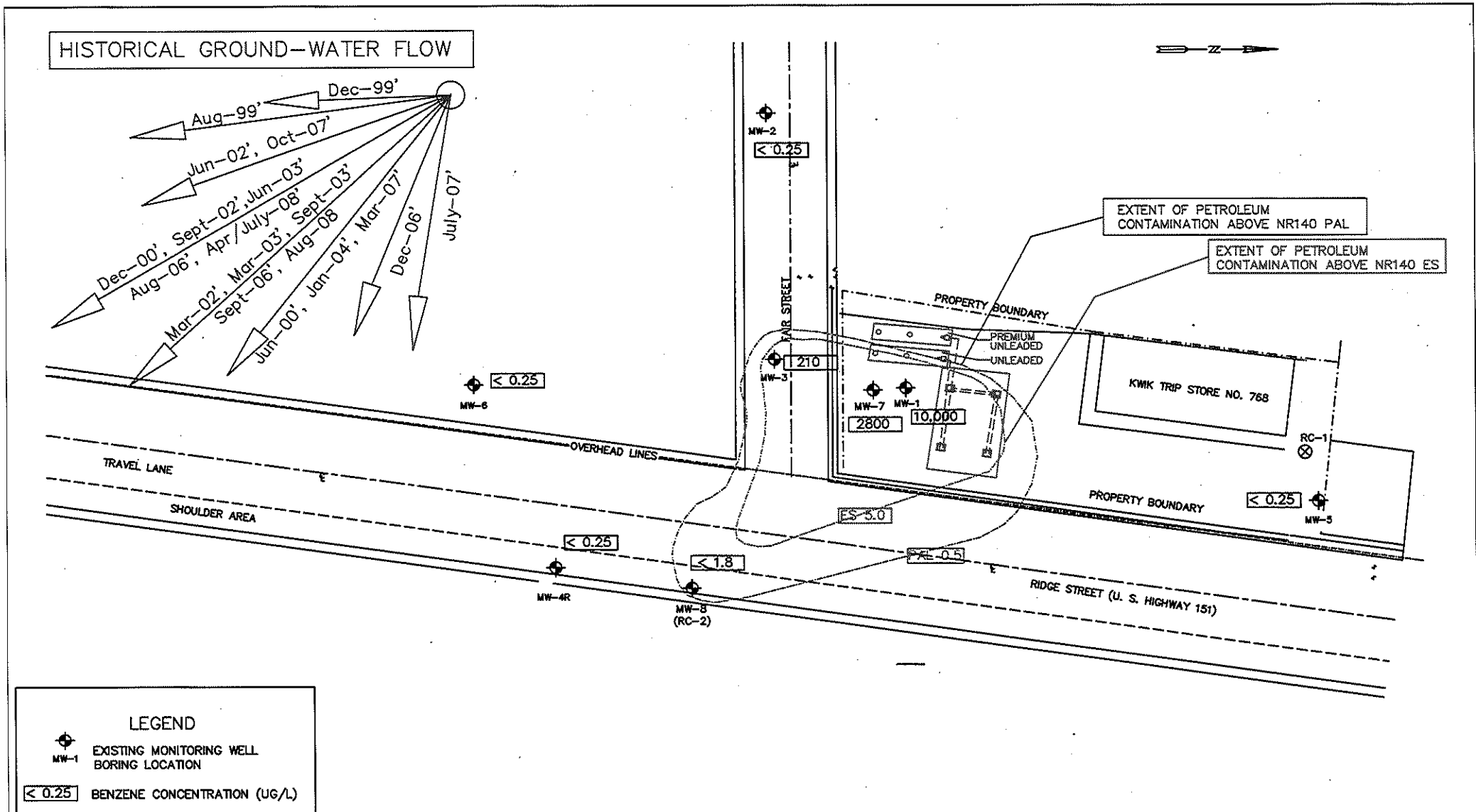

Based on monitoring results, the free phase petroleum hydrocarbons have decreased over time. In addition, the dissolve petroleum concentrations although relatively high, have also decreased overtime. The final closure alternative for this site will be natural attenuation with a GIS listed NR140 ES exceedence. Considering that there has been over 10 years of monitoring, with 27 sampling rounds having been collected. If Additional groundwater sampling is required, that will likely also continue to show decreasing PVOC concentrations; however, the hindrance to regulatory site closure is the free product and relatively high petroleum concentrations being located within the bedrock. The best active alternative would require a pumping/drawdown type system, which in bedrock would be rather expense and cost prohibited. Thus, Pioneer Environmental Inc believes the current monitoring data is sufficient at this time to approach a regulatory site closure with a GIS soil and groundwater listing.

**Attach a current plume map for groundwater contamination**
**Attach a current plume map for soil contamination**

## GENERAL

If you have any questions about the enclosures or need additional information, please feel free to contact Joseph Drapeau at (608) 437-3900.


PROPERTY BOUNDARY
PREMIUM UNLEADED
UNLEADED
CONSTRUCTION EASEMENT
KWIK TRIP STORE NO. 768
SIDEWALK
FAIR STREET
LIMITS OF APRIL 23, 1997 EXCAVATION
Approx. Extent of Soils Remaining that Exceeding NR720 RCLS
PROPERTY BOUNDARY
WATER
ACCESS EASEMENT
SANITARY SEWER
STORM SEWER
Excavated petroleum contaminated soils to depth of 4 feet bls.
Includes NR746 T1 & T2 sample locations
(U. S. HIGHWAY 151)
LEGEND
GEOPROBE BORING (OCTOBER 29, 1996)
SOIL SAMPLING LOCATION (APRIL 23, 1997)
EXTENTS OF EXCAVATED SOIL TO DEPTH OF 2 FEET BELOW GRADE
EXTENTS OF EXCAVATED SOIL TO DEPTH OF 4 FEET BELOW GRADE
Soils above NR 746 T2 Values - Red Square
Soils Above NR 746 T1 Values - Red Slash
*ALL LOCATIONS ARE APPROXIMATE
0 20
SCALE IN FEET
Modified by Pioneer Environmental Jan 26, 2009
DATE: 1/27/1999
REVISION: 1
DISK: J:\1090936\KW768\\
FILE: PREVINV.DWG
DRAWN:
CHECKED:
PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
5625 Grand Teton Plaza
Madison, WI 53719
(608) 833-6656
KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN
STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS
FIGURE:
3




| | | | |
|---|---|---|---|
| DATE: 12/3/06 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC MOUNT HOREB, WI | FIGURE: 1 |
| REVISION: 1 | | | |
| DISK: PROJECTS/KT/KT768 | | | |
| FILE: gw-flow | GROUNDWATER BENZENE CONTAMINATION MAP JULY 24, 2008 | | |
| DRAWN: CHECKED: | | | |

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION C - ATTACHMENTS

**TABLE 1**

**KWIK TRIP, INC.**
**STATION NO. 768**
**MINERAL POINT, WISCONSIN**

**OCTOBER 29, 1996 GEOPROBE FIELD SCREENING RESULTS**
(all results in parts per million (ppm) as isobutylene)

| Location | Date | Depth (feet below grade) | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0.5-2 | 2-4* | 4-6 | 6-8 | 8-10 | 10-12 |
| G1 | 10/29/1996 | 140 | 50 | 20 | 15 | - | - (EOB) |

* : Soil sample collected at 3 feet below grade.
EOB : End of boring.
\- : Field screening results from soil sample at this interval are not available.

**TABLE 2**

**KWIK TRIP, INC.**
**STATION NO. 768**
**MINERAL POINT, WISCONSIN**

**GEOPROBLE SAMPLE SOIL QUALITY**
(all results in milligrams per kilogram (mg/kg))

| Location | Date | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | 1,3,5-Trimethyl-benzene | 1,2,4-Trimethyl-benzene | GRO |
|---|---|---|---|---|---|---|---|---|---|
| **RCLs** | | - | **0.0055** | **1.500** | **2.900** | **4.100** | - | - | **100** |
| G1 (3') | 10/29/1996 | < 0.035 | **1.6400** | **1.390** | **0.456** | **3.420** | **0.253** | **0.759** | **15** |

mg/kg : Milligrams per kilogram
RCLs : Residual Contaminant Levels established in NR 720.09 and 720.11, Wisc. Admin. Code
MTBE : Methyl-tert-butyl-ether
GRO : Gasoline range organics
: Concentration exceeds RCL.
< : Not present above laboratory method detection limit (MDL).
Note : Bold type indicates exceedance of MDL.

**TABLE 3**

**KWIK TRIP, INC.**
**STATION NO. 768**
**MINERAL POINT, WISCONSIN**

**FIELD SCREENING RESULTS**
(all results in parts per million (ppm) as isobutylene)

| Map Location | Time | Depth (ft bg) | PID Reading | Location | Soil Description |
|---|---|---|---|---|---|
| **1** | 0830 | 2 | 9 | N tank fill | Fill, pea stone & sand |
| **2** | 0840 | 2 | 2 | S tank fill | Fill, pea stone & sand |
| **3** | 0850 | 2 | 23 | Center of W piping run | Fill, pea stone & sand |
| **4** | 0855 | 2 | 205 | SE dispenser | Fill, pea stone & sand |
| **5** | 0900 | 2 | 210 | NE dispenser | Fill, pea stone & sand |
| **6** | 1242 | 4 | 38 | Basin floor | Clay, brwn-red, little silt |
| **7** | 1510 | 2 | 5 | N sidewall | Clayey silt, brwn-red |
| **8** | 1515 | 2 | 6 | W sidewall | Clayey silt, brwn-red |
| **9** | 1520 | 2 | 2 | S sidewall | Clayey silt, brwn-red |
| **10** | 1530 | 2 | 2 | E sidewall | Clayey silt & sand & gravel |
| **11** | 1400 | 2 | 16 | Center of N piping run | Fill, pea stone & sand |
| **12** | 1410 | 2 | 4 | NW dispenser | Fill, pea stone & sand |
| **13** | 1420 | 2 | 6 | SW dispenser | Fill, pea stone & sand |

ft bg : Feet below grade

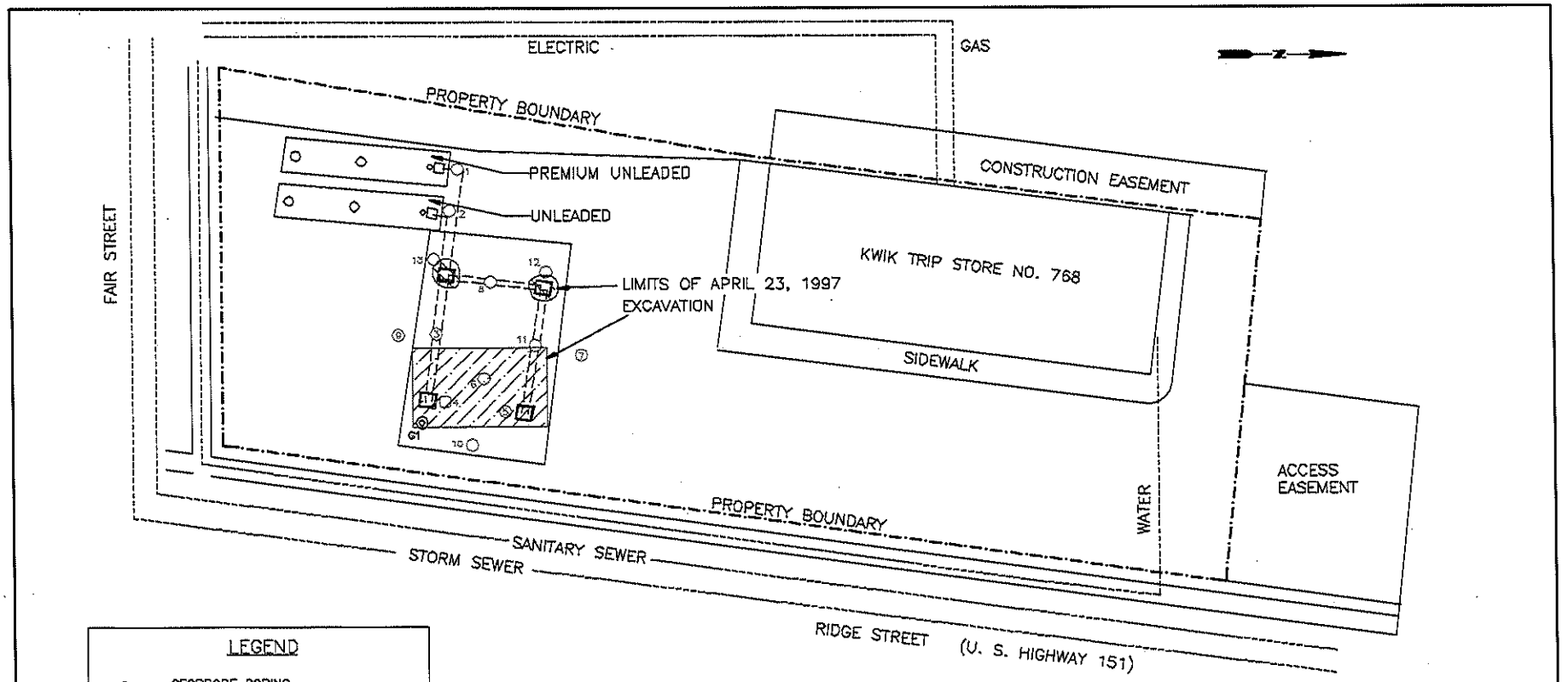
TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

SOIL QUALITY SUMMARY - ALL SOIL EXCAVATION SAMPLES
(all results in milligrams per kilogram (mg/kg))

| Location | Sample Depth (ft bg) | Date | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | 1,3,5-Trimethyl-benzene | 1,2,4-Trimethyl-benzene | GRO | Total Lead | *S Rem |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NR720 - RCLs** | | | - | **0.0055** | **1.5** | **2.9** | **4.1** | - | - | **100** | **50** | |
| **NR746 - T1** | **All** | | | **8.5** | **38.0** | **4.6** | **42.0** | **83.0** | **11.0** | - | | |
| **NR746 - T2** | **0-4** | | | **1.1** | - | - | - | - | - | - | | |
| **1** | 2 | 4/23/1997 | < 0.026 | < 0.011 | < 0.026 | < 0.026 | < 0.077 | < 0.026 | < 0.026 | < 5.2 | < 4.1 | N |
| **2** | 2 | 4/23/1997 | < 0.026 | < 0.011 | < 0.026 | < 0.026 | < 0.080 | < 0.026 | < 0.026 | < 5.3 | < 4.2 | N |
| **3** | 2 | 4/23/1997 | < 0.027 | < 0.011 | 0.081 | < 0.027 | 0.214 | 0.04 | 0.096 | < 5.3 | 6.0 | Y |
| **4** | 2 | 4/23/1997 | < 2.78 | ***56.7*** | **623** | **122** | **2,020** | 311 | 957 | **15,600** | 8.8 | Y |
| **5** | 2 | 4/23/1997 | < 2.69 | ***5.81*** | **37.7** | **16.1** | **161** | 88.3 | 118 | **2,800** | 7.2 | Y |
| **6** | 4 | 4/23/1997 | < 0.065 | ***1.94*** | **12.2** | **4.01** | **23.3** | 4.14 | 12.3 | **233** | **142** | Y |
| **7** | 2 | 4/23/1997 | < 0.030 | < 0.012 | < 0.030 | < 0.030 | < 0.090 | < 0.030 | < 0.030 | < 6.0 | **78** | N |
| **8** | 2 | 4/23/1997 | < 0.030 | < 0.012 | < 0.030 | < 0.030 | < 0.091 | < 0.030 | < 0.030 | < 6.1 | **52** | N |
| **9** | 2 | 4/23/1997 | < 0.032 | **0.016** | 0.077 | 0.057 | 0.494 | 0.234 | 0.598 | 12 | **61** | Y |
| **10** | 2 | 4/23/1997 | < 0.030 | **0.03** | 0.632 | 0.352 | 3.16 | 0.802 | 2.31 | 38 | **78** | Y |
| **11** | 2 | 4/23/1997 | < 0.026 | < 0.01 | 0.254 | 0.18 | 1.48 | 0.487 | 1.27 | 31 | 22 | Y |
| **12** | 2 | 4/23/1997 | < 0.026 | < 0.01 | 0.089 | 0.076 | 0.604 | 0.233 | 0.551 | 10 | 26 | N |
| **13** | 2 | 4/23/1997 | < 0.026 | < 0.01 | 0.168 | 0.116 | 1.05 | 0.379 | 0.896 | 18 | 8.0 | N |
| **MW-1** | 2-4 | 8/11/1998 | < 0.026 | < 0.026 | < 0.026 | 0.028 | 0.056** | 0.18 | 0.20 | 21 | 35.5 | - |
| **MW-1** | 9 | 8/11/1998 | < 0.025 | < 0.025 | < 0.025 | < 0.025 | < 0.050 | < 0.025 | < 0.025 | < 1.3 | 8.43 | - |
| **Field Blank** | - | 4/23/1997 | < 0.025 | < 0.01 | < 0.025 | < 0.025 | < 0.075 | < 0.025 | < 0.025 | < 5.0 | - | - |

**25.30** : Concentration exceeds NR 720 Residual Contaminant Level (BOLD)
<u>25.30</u> : Concentration exceeds NR 746 - Table 1 Values (UNDERLINED)
*25.30* : Concentration exceeds NR 746 - Table 2 Values (ITALICS)
* : Soil sample excavated and hauled to landfill
RCLs : Residual Contaminant Levels established in NR 720.09 and 720.11, Wisc. Admin. Code
ft bg : Feet below grade
< : Not present above laboratory method detection limit (MDL)



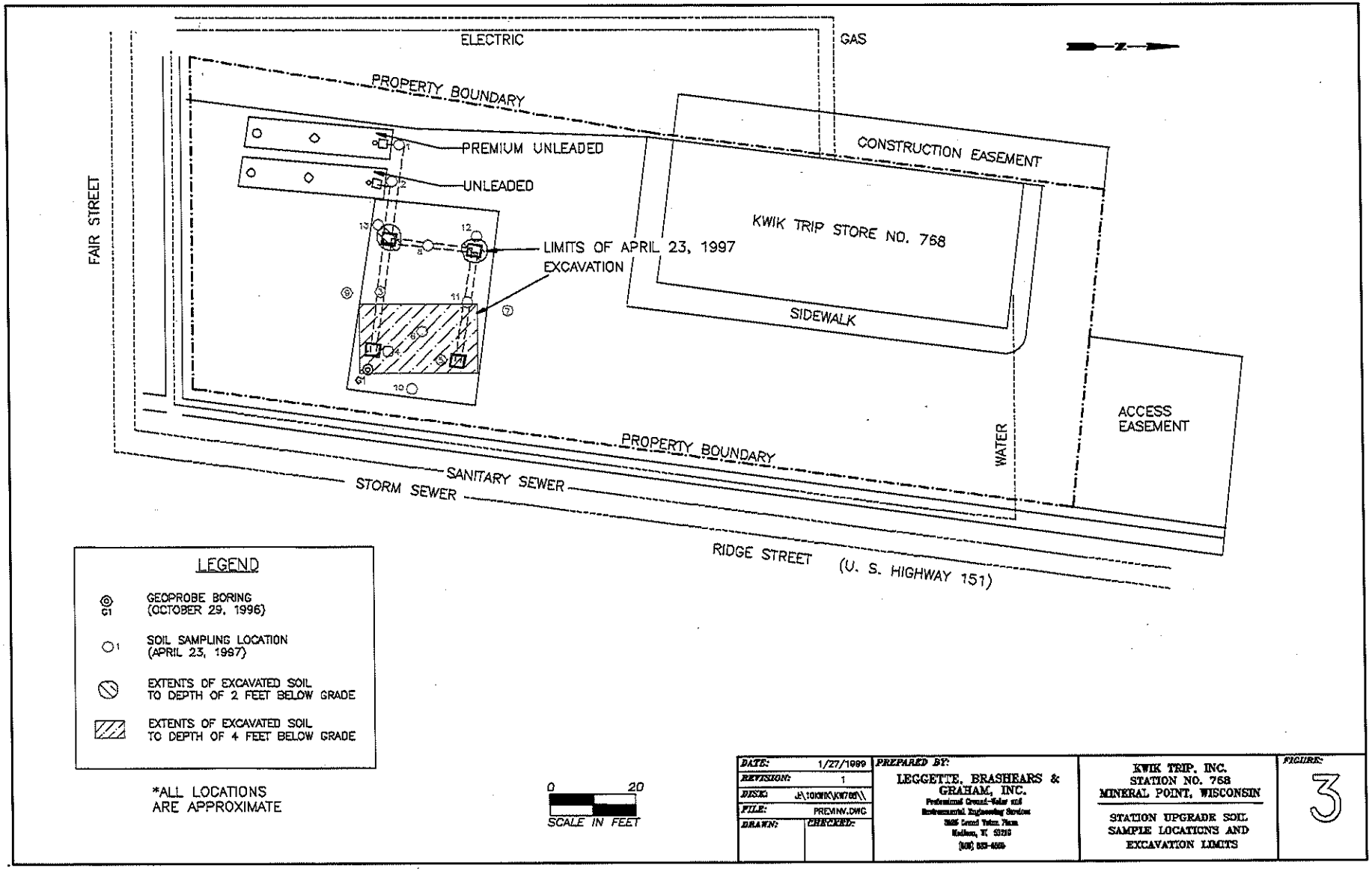

LEGEND

- GEOPROBE BORING (OCTOBER 29, 1996)
- SOIL SAMPLING LOCATION (APRIL 23, 1997)
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 2 FEET BELOW GRADE
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 4 FEET BELOW GRADE

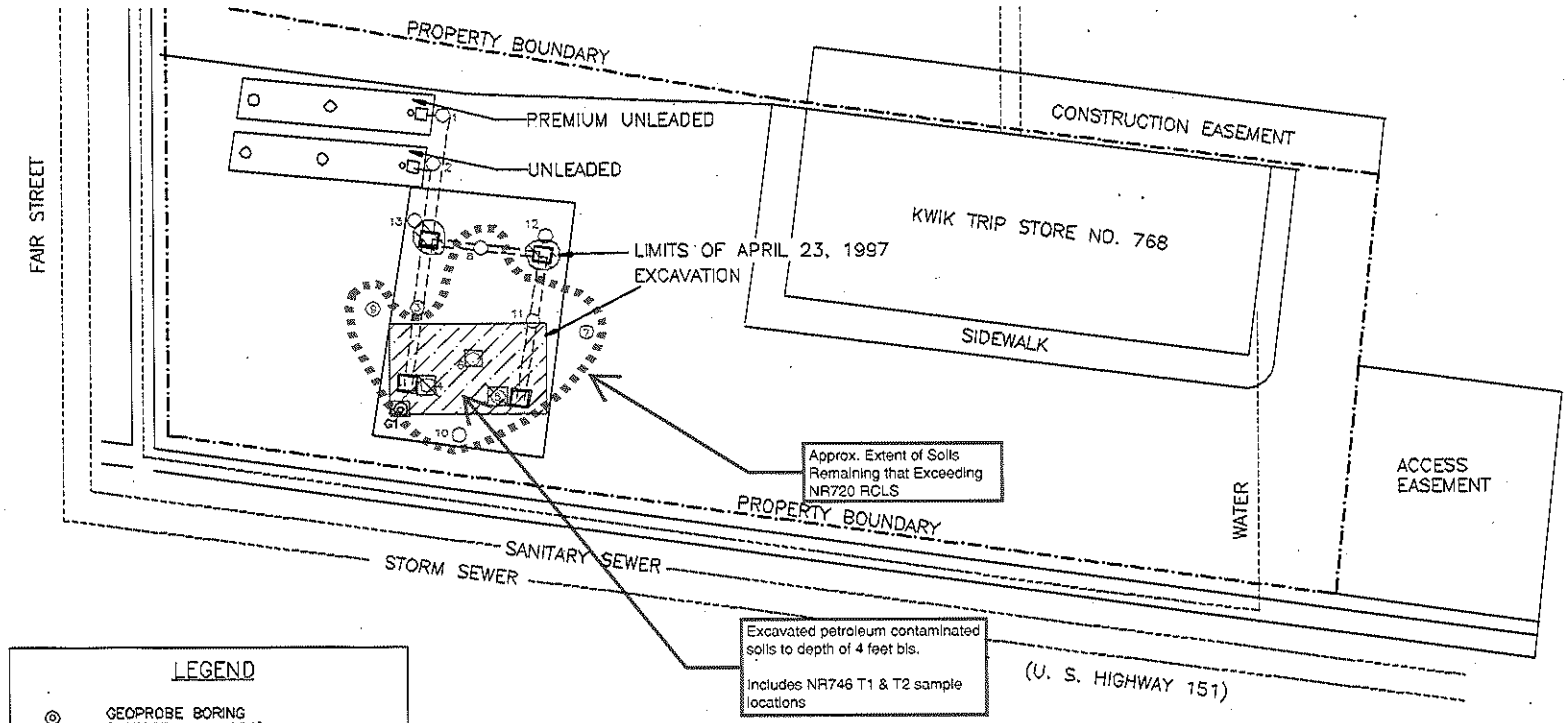
*ALL LOCATIONS ARE APPROXIMATE

0 20
SCALE IN FEET

| | | | |
|---|---|---|---|
| DATE: 1/27/1999 | PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Consulting Engineers and Environmental Engineering Services 5885 Council Tower Drive Madison, WI 53718 (608) 833-4000 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | FIGURE: 3 |
| REVISION: 1 | | STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS | |
| DISK: J:\1093IK\KW768\\ | | | |
| FILE: PREVINV.DWG | | | |
| DRAWN: CHECKED: | | | |




| | | | |
|---|---|---|---|
| DATE: 1/27/1999 | PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 7625 Grand Teton Plaza Madison, WI 53719 (608) 833-4455 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | FIGURE: 3 |
| REVISION: 1 | | | |
| DISK: J:\10KWIK\KW768\\ | | | |
| FILE: PREMINV.DWG | | | |
| DRAWN: CHECKED: | | STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS | |




LEGEND

- GEOPROBE BORING (OCTOBER 29, 1996)
- SOIL SAMPLING LOCATION (APRIL 23, 1997)
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 2 FEET BELOW GRADE
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 4 FEET BELOW GRADE

Soils above NR 746 T2 Values - Red Square

Soils Above NR 746 T1 Values - Red Slash

*ALL LOCATIONS ARE APPROXIMATE

0 20
SCALE IN FEET

Modified by Pioneer Environmental Jan 26, 2009

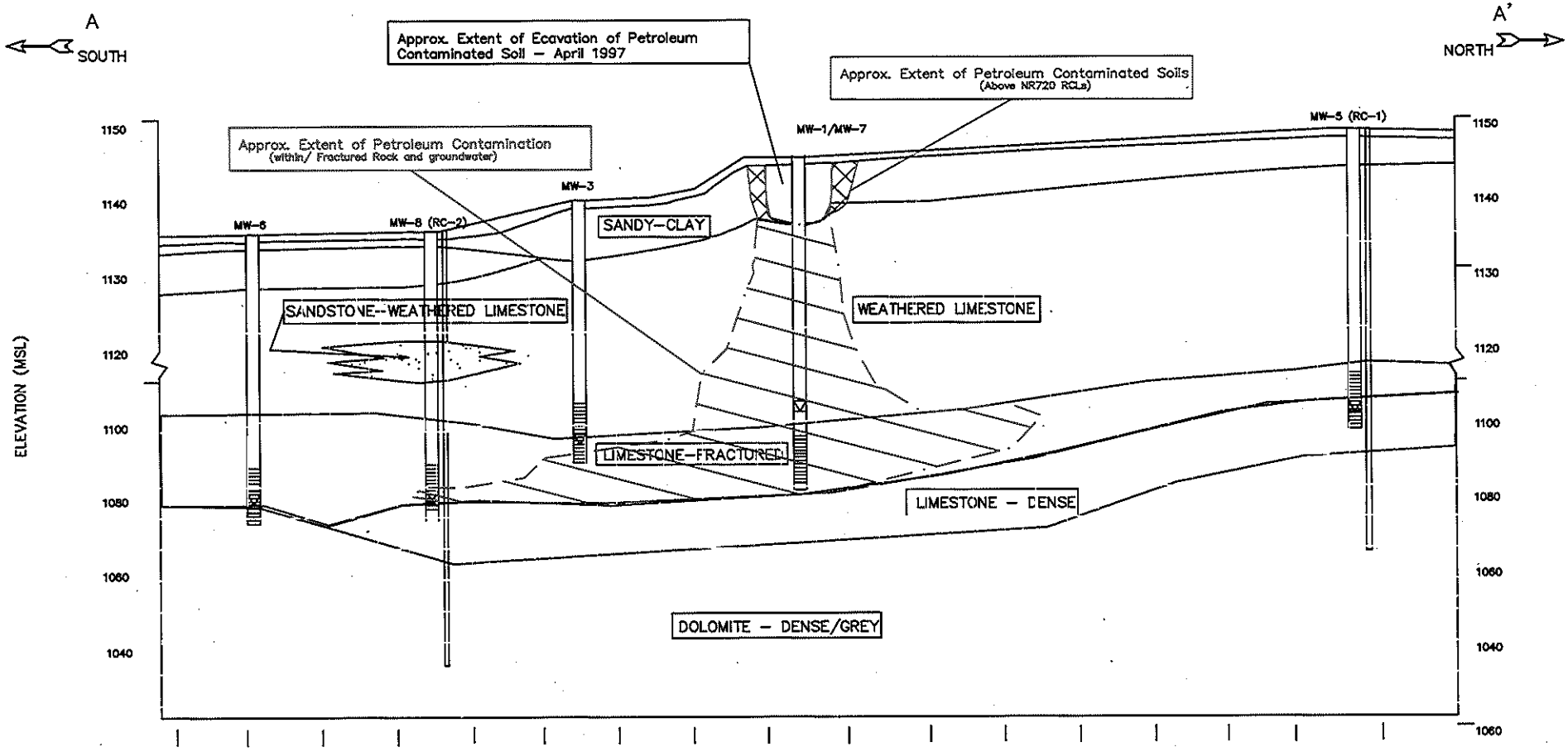
| | |
|---|---|
| DATE: | 1/27/1999 |
| REVISION: | 1 |
| DISK: | J:\1093RK\KW768\\ |
| FILE: | PREVINV.DWG |
| DRAWN: | CHECKED: |

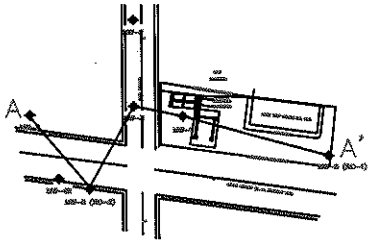
PREPARED BY:
LEGGETTE, BRASHEARS & GRAHAM, INC.
Professional Ground-Water and Environmental Engineering Services
[illegible] Grand Teton Plaza
Madison, WI 53719
(608) 833-6656

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS

FIGURE: 3




CROSS-SECTION TRANSECT

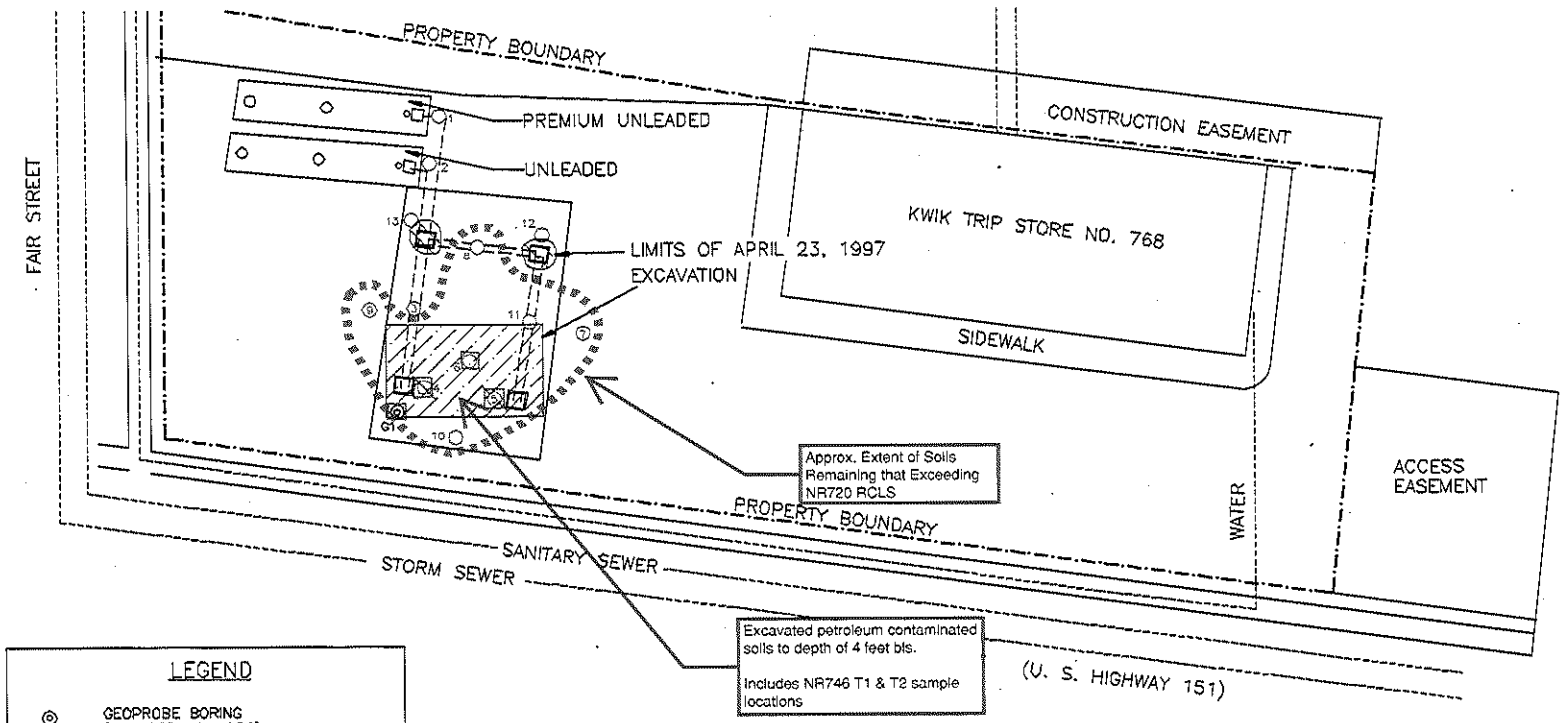
| | | | |
|---|---|---|---|
| DATE: 9/30/04 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC 203 1/2 EAST MAIN STREET MOUNT HOREB, WI | FIGURE: 4 |
| REVISION: 0 | | | |
| DISK: Projects\KT\KT768\ | GEOLOGIC CROSS SECTION A–A' | | |
| FILE: CSECTION.DWG | | | |
| DRAWN: CHECKED: | | | |

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION D - ATTACHMENTS




## LEGEND

- GEOPROBE BORING (OCTOBER 29, 1996)
- SOIL SAMPLING LOCATION (APRIL 23, 1997)
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 2 FEET BELOW GRADE
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 4 FEET BELOW GRADE

Soils above NR 746 T2 Values - Red Square

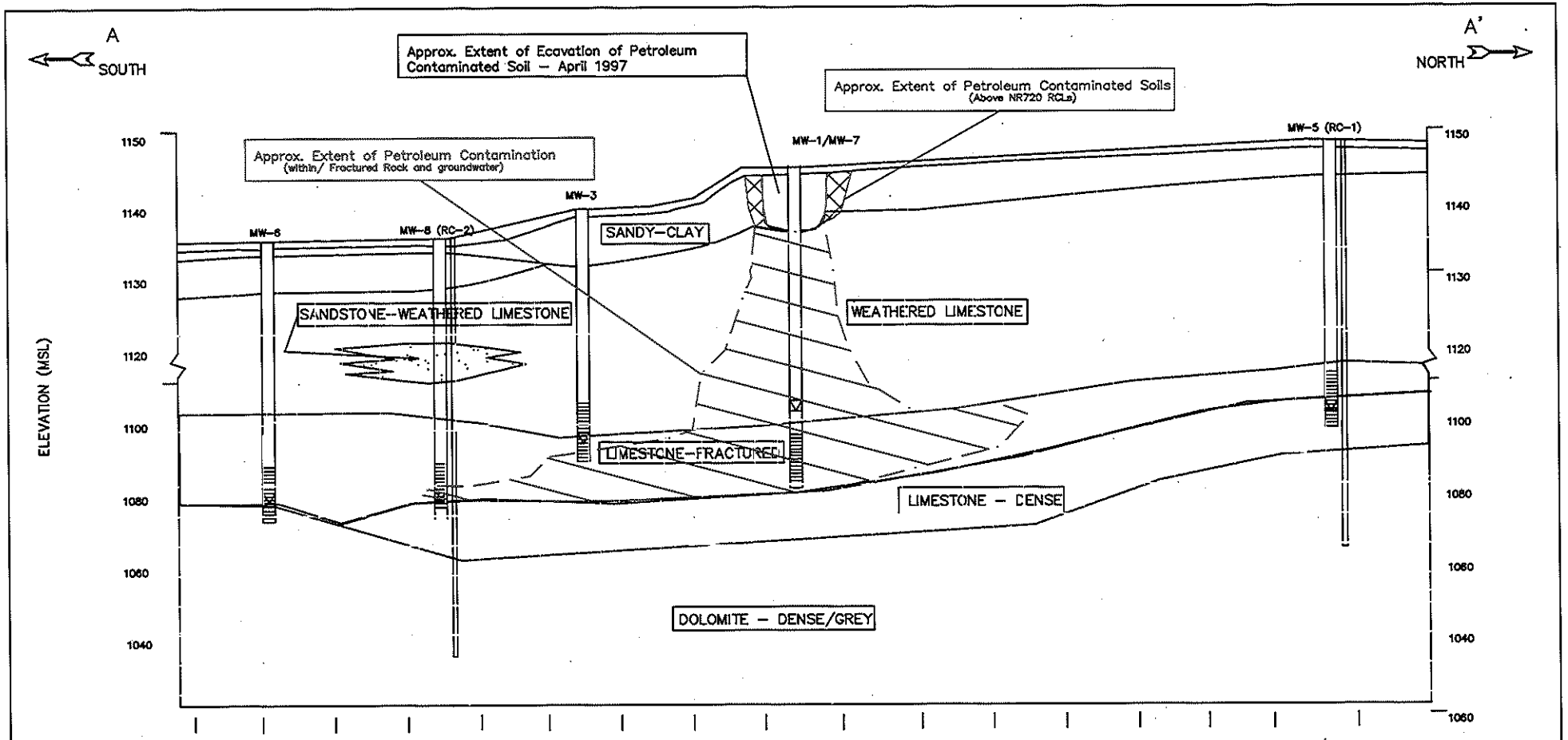
Soils Above NR 746 T1 Values - Red Slash

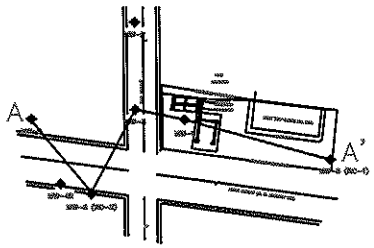
*ALL LOCATIONS ARE APPROXIMATE

0 20
SCALE IN FEET

Modified by Pioneer Environmental Jan 26, 2009

| | | | |
|---|---|---|---|
| DATE: 1/27/1999 | PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 5625 Grand Teton Plaza Madison, WI 53719 (608) 833-4669 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | FIGURE: 3 |
| REVISION: 1 | | STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS | |
| DISK: J:\10KWIK\KW768\\ | | | |
| FILE: PREVINV.DWG | | | |
| DRAWN: CHECKED: | | | |




CROSS-SECTION TRANSECT

| | |
|---|---|
| DATE: | 9/30/04 |
| REVISION: | 0 |
| DISK: | Projects\KT\KT768\ |
| FILE: | CSECTION.DWG |
| DRAWN: | CHECKED: |

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

GEOLOGIC CROSS SECTION
A–A'

PIONEER ENVIRONMENTAL INC
203 1/2 EAST MAIN STREET
MOUNT HOREB, WI

FIGURE: 4

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION E - ATTACHMENTS

TABLE 3

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

GROUNDWATER QUALITY DATABASE
(all results are in micrograms per liter (µg/l))

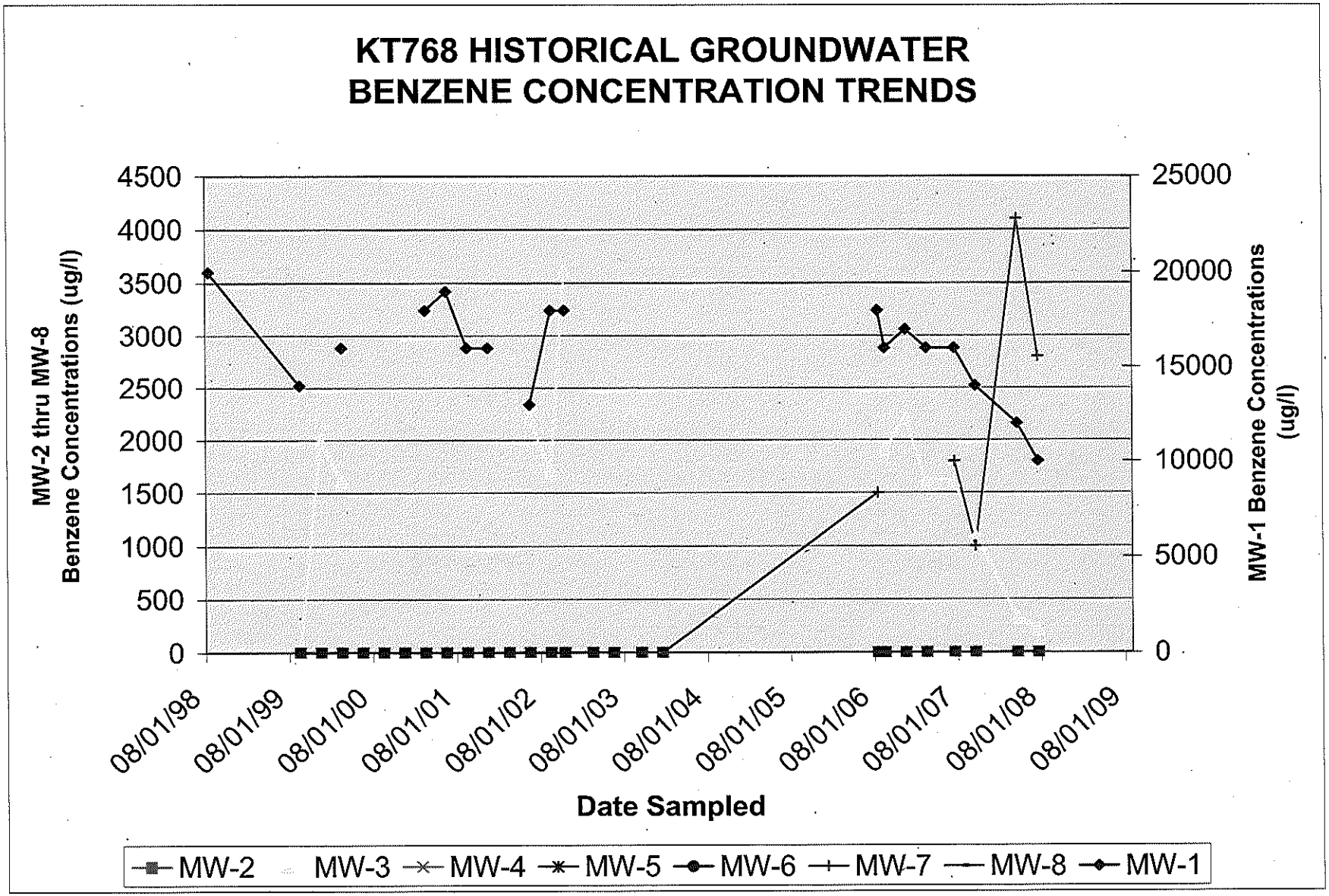
| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| Enforcement Standard | | 5 | 1,000 | 700 | 10,000 | 60 | 480 | - | 40 |
| Preventive Action Limit | | 0.5 | 200 | 140 | 1,000 | 12 | 96 | - | 8 |
| MW-1 | 8/12/1998 | 20,000 [1] | 3,400 | 900 | 1,400 | 1,400 | 700* | 28,000** | < 550 |
| MW-1 | 9/14/1999 | 14,000 | 6,400 | 2,200 | 8,100 | 840 | 4,030 | 57,000 | 820 |
| MW-1 | 12/9/1999 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 3/10/2000 | 16,000 | 1,400 | 1,700 | 4,100 | < 200 | 1,540 | 36,000 | - |
| MW-1 | 6/22/2000 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 9/20/2000 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 12/19/2000 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 3/19/2001 | 18,000 | 4,600 | 1,800 | 4,900 | 740 | 2,230 | 40,000 | - |
| MW-1 | 6/15/2001 | 19,000 | 7,500 | 2,200 | 5,600 | < 210 | 2,260 | 46,000 | - |
| MW-1 | 9/21/2001 | 16,000 | 8,300 | 2,200 | 5,650 | 2,000 | 2,430 | 49,000 | - |
| MW-1 | 12/18/2001 | 16,000 | 8,300 | 2,000 | 5,370 | 620 | 1,840 | 46,000 | - |
| MW-1 | 3/21/2002 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 6/4/2002 | 13,000 | 6,000 | 2,100 | 5,180 | 860 | 1,640 | 44,000 | - |
| MW-1 | 9/4/2002 | 18,000 | 9,500 | 2,000 | 5,600 | 420 | 1,890 | 50,000 | - |
| MW-1 | 11/27/2002 | 18,000 | 10,000 | 1,900 | 5,000 | 800 | 1,760 | 45,000 | - |
| MW-1 | 3/18/2003 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 6/3/2003 | Not Sampled - See MW-7 Results | | | | | | | |
| MW-1 | 10/7/2003 | Not Sampled - See MW-7 Results | | | | | | | |
| MW-1 | 1/7/2004 | Not Sampled - See MW-7 Results | | | | | | | |
| MW-1 | 8/3/2006 | 18,000 | 12,000 | 1,600 | 4,600 | < 370 | 1,000 | NA | < 270 |
| MW-1 | 9/28/2006 | 16,000 | 12,000 | 1,600 | 4,800 | < 370 | 1,890 | NA | < 270 |
| MW-1 | 12/20/2006 | 17000 | 14000 | 2300 | 7700 | 530 | 2140 | NA | 1200 |
| MW-1 | 3/26/2007 | 16000 | 11000 | 2900 | 7700 | 470 | 3330 | NA | ND |
| MW-1 | 7/2/2007 | 16000 | 13000 | 1400 | 7500 | ND | 1700 | NA | 1500 |
| MW-1 | 10/1/2007 | 14000 | 14000 | 2400 | 7800 | 140 | 2330 | NA | 510 |
| MW-1 | 4/23/2008 | 12000 | 4000 | 1900 | 5600 | 130 | 2640 | NA | 550 |
| MW-1 | 7/24/2008 | 10000 | 12000 | 2600 | 8100 | ND | 2330 | NA | 560 |
| MW-2 | 9/14/1999 | < 0.10 | < 0.10 | < 0.25 | < 0.25 | < 0.25 | < 0.20 | < 50 | < 0.10 |
| MW-2 | 12/9/1999 | 0.37 | 0.21 | < 0.22 | 0.25 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 3/10/2000 | 0.29 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 6/22/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 9/20/2000 | 16 | 18 | 1.4 | 6.9 | < 0.16 | 0.40 | 55 | - |
| MW-2 | 12/19/2000 | 16 | 0.42 | 0.75 | 2.2 | < 0.16 | 0.38 | < 50 | - |
| MW-2 | 3/19/2001 | 8.1 | < 0.20 | < 0.22 | 0.28 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 6/15/2001 | 0.64 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 9/21/2001 | 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-2 | 12/18/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-2 | 3/21/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-2 | 6/4/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-2 | 9/4/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 11/27/2004 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 3/18/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.44 | < 50 | - |
| MW-2 | 6/3/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.44 | < 50 | - |
| MW-2 | 10/7/2003 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-2 | 1/7/2004 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-2 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |

| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | **5** | **1,000** | **700** | **10,000** | **60** | **480** | **-** | **40** |
| **Preventive Action Limit** | | **0.5** | **200** | **140** | **1,000** | **12** | **96** | **-** | **8** |
| MW-2 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-2 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 3/26/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 7/2/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 10/1/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 4/23/2008 | ND | 0.11 | ND | ND | ND | ND | NA | ND |
| MW-2 | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-3 | 9/14/1999 | **1,400** | **1,000** | **1,800** | **4,400** | < 10 | **3,080** | 24,000 | **500** |
| MW-3 | 12/9/1999 | **2,000** | **1,300** | **1,700** | **4,300** | < 8.0 | **2,570** | 27,000 | - |
| MW-3 | 3/10/2000 | **1,600** | **1,100** | **1,500** | **3,800** | < 16 | **1,920** | 20,000 | - |
| MW-3 | 6/22/2000 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 9/20/2000 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 12/19/2000 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 3/19/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 6/15/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 9/21/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 12/18/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 3/21/2002 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 6/4/2002 | **2,200** | **1,900** | **2,000** | **5,490** | < 40 | **4,900** | 35,000 | - |
| MW-3 | 9/4/2002 | **1,700** | **2,200** | **1,700** | **4,900** | < 7.6 | **4,800** | 31,000 | - |
| MW-3 | 11/27/2002 | **3,600** | **4,500** | **5,000** | **14,000** | < 130 | **30,000** | 320,000 | - |
| MW-3 | 3/18/2003 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 6/3/2003 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 10/7/2003 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 1/7/2004 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 8/3/2006 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 9/28/2006 | **1,900** | **2,400** | **2,200** | **7,800** | **< 370** | **4,070** | NA | **< 270** |
| MW-3 | 12/20/2006 | **2200** | **3500** | **2400** | **8200** | ND | **3200** | NA | **700** |
| MW-3 | 3/26/2007 | **1600** | **2900** | **1900** | **6600** | ND | **2600** | NA | **710** |
| MW-3 | 7/2/2007 | **1600** | **1500** | **1600** | **7700** | ND | **2700** | NA | **1200** |
| MW-3 | 10/1/2007 | **1100** | **2900** | **3400** | **13000** | ND | **37500** | NA | **8500** |
| MW-3 | 4/23/2008 | **320** | **430** | **1700** | **5000** | ND | **4900** | NA | **790** |
| MW-3 | 7/24/2008 | **210** | **250** | **2000** | **4700** | ND | **10100** | NA | **1100** |
| MW-4R | 9/14/1999[2] | - | - | - | - | - | - | - | - |
| MW-4R | 12/9/1999[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/22/2000 | < 0.13 | < 0.20 | 0.31 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-4R | 9/20/2000[2] | - | - | - | - | - | - | - | - |
| MW-4R | 12/19/2000[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/19/2001[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/15/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-4R | 9/21/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-4R | 12/18/2001[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/21/2002[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/4/2002[2] | - | - | - | - | - | - | - | - |
| MW-4R | 9/4/2002[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/18/2003[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/03/2003[2] | - | - | - | - | - | - | - | - |
| MW-4R | 10/07/2003[2] | - | - | - | - | - | - | - | - |
| MW-4R | 1/7/2004[2] | - | - | - | - | - | - | - | - |
| MW-4R | 8/3/2006[2] | - | - | - | - | - | - | - | - |
| MW-4R | 9/28/2006[2] | - | - | - | - | - | - | - | - |
| MW-4R | 12/20/2006[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/26/2007[2] | - | - | - | - | - | - | - | - |
| MW-4R | 7/2/2007[2] | - | - | - | - | - | - | - | - |
| MW-4R | 10/1/2007 | ND | 0.17 | ND | ND | ND | ND | NA | ND |
| MW-4R | 4/23/2008 | ND | 0.22 | ND | ND | ND | ND | NA | ND |

| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | **5** | **1,000** | **700** | **10,000** | **60** | **480** | **-** | **40** |
| **Preventive Action Limit** | | **0.5** | **200** | **140** | **1,000** | **12** | **96** | **-** | **8** |
| MW-4R | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 9/14/1999 | < 0.10 | < 0.10 | < 0.25 | < 0.25 | < 0.25 | < 0.20 | < 50 | < 0.10 |
| MW-5 | 12/9/1999 | **1.7** | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 3/10/2000 | **2.6** | < 0.20 | < 0.22 | 0.34 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 6/22/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 9/20/2000 | **3.4** | < 0.20 | < 0.22 | 0.59 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 12/19/2000 | **5.6** | 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 3/19/2001 | **49** | 0.23 | < 0.22 | < 0.23 | 1.7 | < 0.51 | 78 | - |
| MW-5 | 6/15/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 9/21/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-5 | 12/18/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-5 | 3/21/2002 | **58** | < 0.40 | < 0.40 | < 1.4 | 2.3 | < 0.90 | 100 | - |
| MW-5 | 6/4/2002 | **8.6** | < 0.40 | < 0.40 | < 1.4 | 1.3 | < 0.90 | < 16 | - |
| MW-5 | 9/4/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 11/27/2002 | **3.1** | < 0.20 | < 0.22 | < 0.23 | 1.00 | < 0.51 | < 50 | - |
| MW-5 | 3/18/2003 | **49** | 0.13 | < 0.22 | < 0.39 | 3.7 | < 0.43 | < 50 | - |
| MW-5 | 6/3/2003 | **3** | <0.11 | < 0.22 | < 0.39 | 2.8 | < 0.43 | < 50 | - |
| MW-5 | 10/7/2003 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | 0.94 | < 0.71 | < 50 | - |
| MW-5 | 1/7/2004 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.30 | < 0.71 | < 50 | - |
| MW-5 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-5 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-5 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 3/26/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 7/2/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 10/1/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 4/23/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 9/14/1999 | < 0.10 | 0.18 | < 0.25 | < 0.25 | < 0.25 | < 0.20 | < 50 | < 0.10 |
| MW-6 | 12/9/1999 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 3/10/2000 | 0.19 | 0.37 | < 0.22 | 0.48 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 6/22/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 9/20/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 12/19/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 3/19/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 6/15/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 9/21/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-6 | 12/18/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-6 | 3/21/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-6 | 6/4/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-6 | 9/4/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 11/27/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 3/18/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.43 | < 50 | - |
| MW-6 | 6/3/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.43 | < 50 | - |
| MW-6 | 10/7/2003 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-6 | 1/7/2004 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-6 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-6 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-6 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 3/26/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 7/2/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 10/1/2007 | ND | 0.14 | ND | ND | ND | ND | NA | ND |
| MW-6 | 4/23/2008 | ND | 0.15 | ND | ND | ND | ND | NA | ND |
| MW-6 | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-7 | 6/3/2003 | NS | NS | NS | NS | NS | NS | NS | - |
| MW-7 | 10/7/2003 | NS | NS | NS | NS | NS | NS | NS | - |

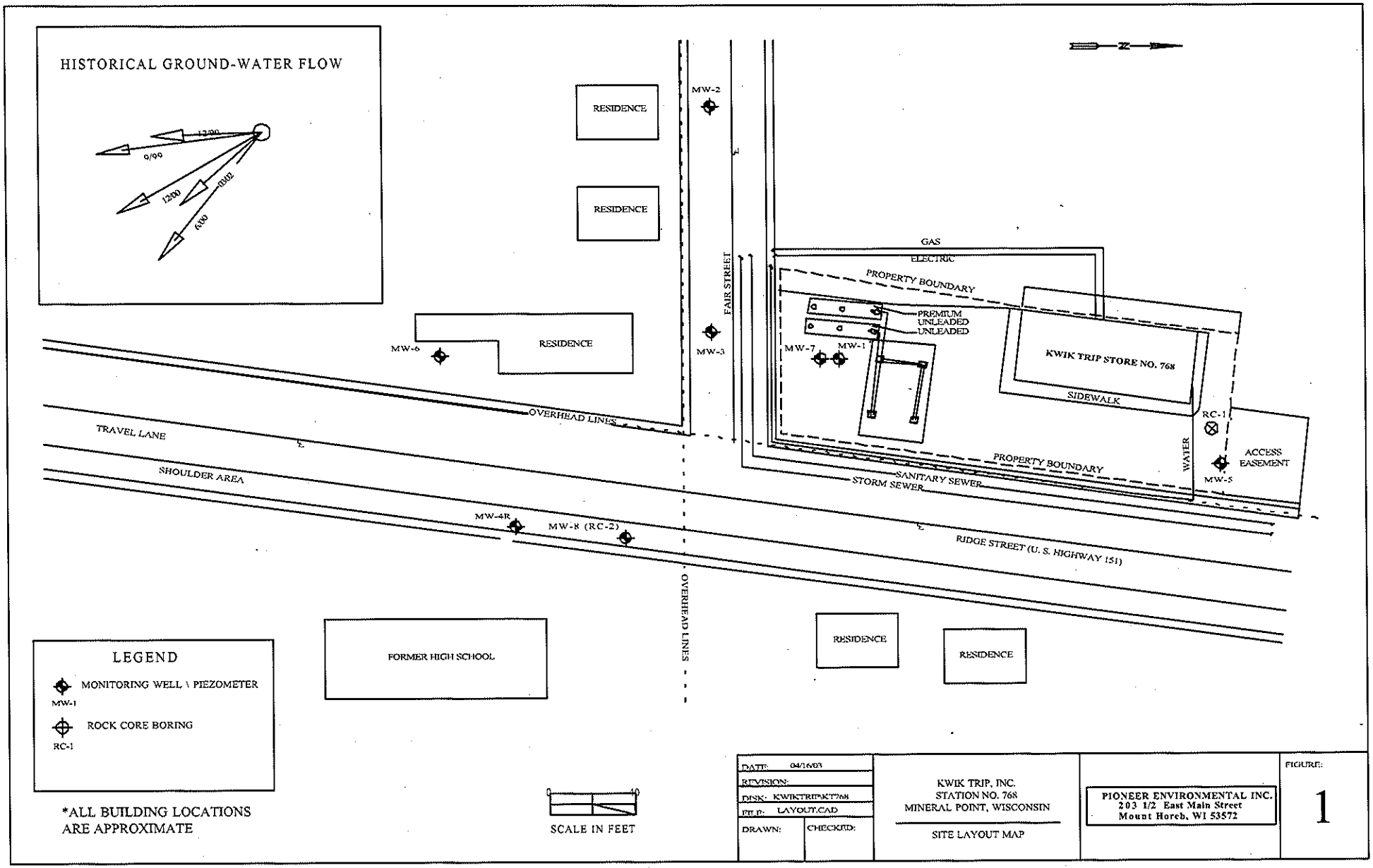
| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | **5** | **1,000** | **700** | **10,000** | **60** | **480** | **-** | **40** |
| **Preventive Action Limit** | | **0.5** | **200** | **140** | **1,000** | **12** | **96** | **-** | **8** |
| MW-7 | 1/7/2004 | **3790** | 155.00 | **324.00** | **1112.6** | < 6.0 | **735** | 11300 | - |
| MW-7 | 8/3/2006 | **1,500** | 90 | **410** | 760 | **< 74** | **1,170** | NA | **< 54** |
| MW-7 | 9/28/2006 | | **Not Sampled - Poor recovery, sediment rich,poor sample** | | | | | | - |
| MW-7 | 12/20/2006 | | **Not Sampled - Poor recovery, sediment rich,poor sample** | | | | | | - |
| MW-7 | 3/26/2007 | | **Not Sampled - Poor recovery, sediment rich,poor sample** | | | | | | - |
| MW-7 | 7/2/2007 | **1800** | 49 | **210** | 390 | ND | **720** | NA | ND |
| MW-7 | 10/1/2007 | **1000** | 110 | 120 | 230 | ND | **340** | NA | **10** |
| MW-7 | 4/23/2008 | **4100** | **840** | **410** | 780 | ND | **680** | NA | **30** |
| MW-7 | 7/24/2008 | **2800** | **420** | **150** | 390 | ND | **302** | NA | **44** |
| MW-8 | 6/3/2003 | **0.89** | 0.49 | < 0.50 | < 0.50 | 0.62 | < 0.50 | 78 | - |
| MW-8 | 10/7/2003 | **2.06** | 4.33 | 1.31 | 1.37 | 5.76 | 0.593 | 412 | - |
| MW-8 | 1/7/2004 | **1.37** | 4.95 | 1.46 | 5.78 | < 0.3 | < 0.71 | 424 | - |
| MW-8 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-8 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-8 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | **11** |
| MW-8 | 3/26/2007 | **1.9** | 2.2 | 3.6 | 2.5 | 1.5 | ND | NA | ND |
| MW-8 | 7/2/2007 | ND | 1.7 | ND | 2.1 | ND | ND | NA | 1.2 |
| MW-8 | 10/1/2007 | ND | 0.72 | ND | 0.62 | ND | 1.83 | NA | 0.97 |
| MW-8 | 5/6/2008 | **1.6** | 0.81 | ND | 1.1 | ND | 1.6 | NA | 0.97 |
| MW-8 | 7/24/2008 | **1.8** | 0.58 | 0.39 | ND | ND | 0.92 | NA | 0.72 |

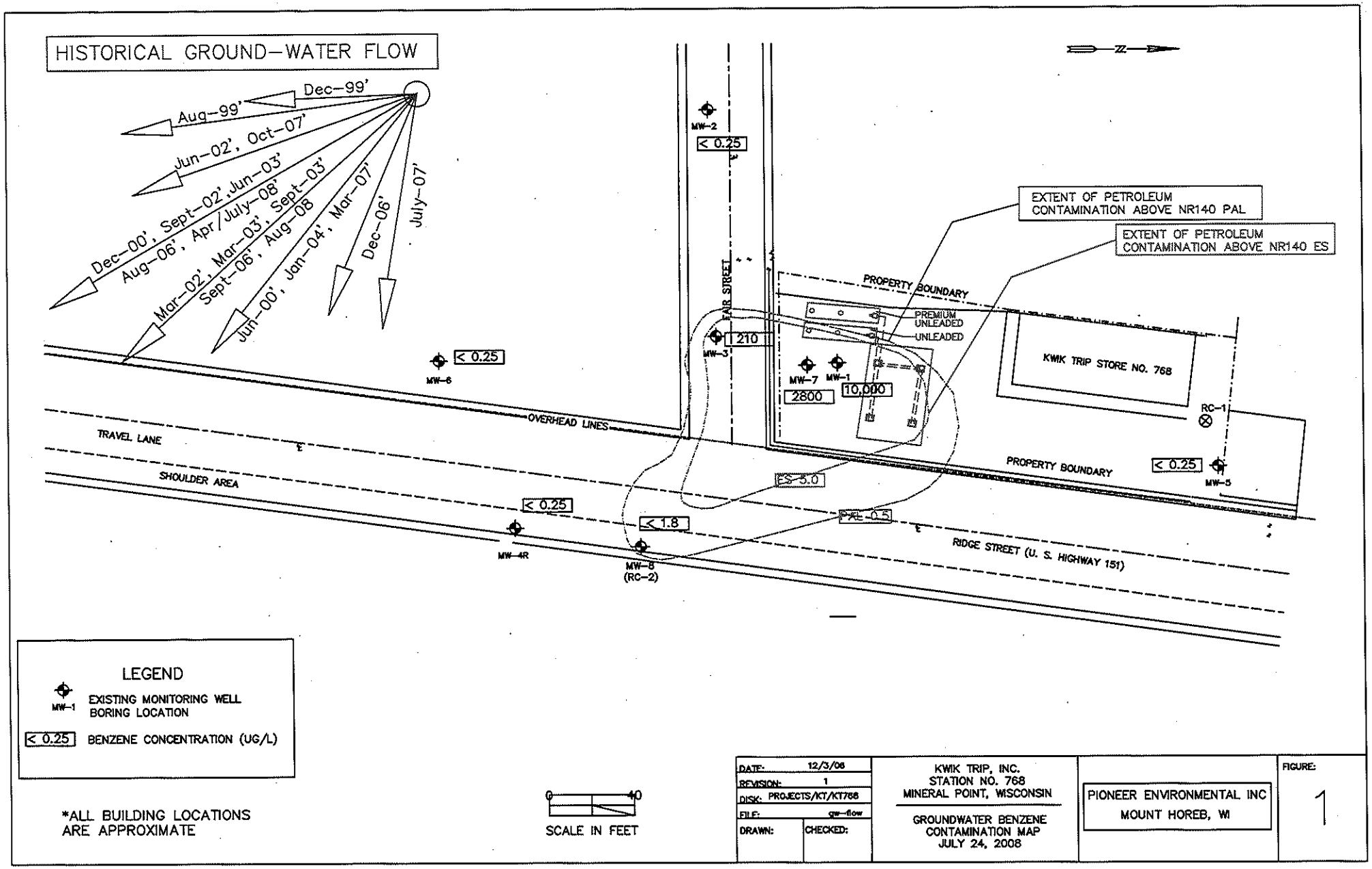
GRO : Gasoline Range Organics
- : Not analyzed
< : Less than the laboratory method detection limit (MDL)
* : Reported concentration below the Quantitation Limit
** : Sample contained lighter hydrocarbon fractions
1 : Raised Quantitation Limit due to dilution for background interference Results reported from higher dilution
2 : Well was dry
**0.45** : Concentration exceeds NR140 Preventative action limits (Bold)
45 : Concentration exceeds NR140 Enforcement Standards (Underlined)

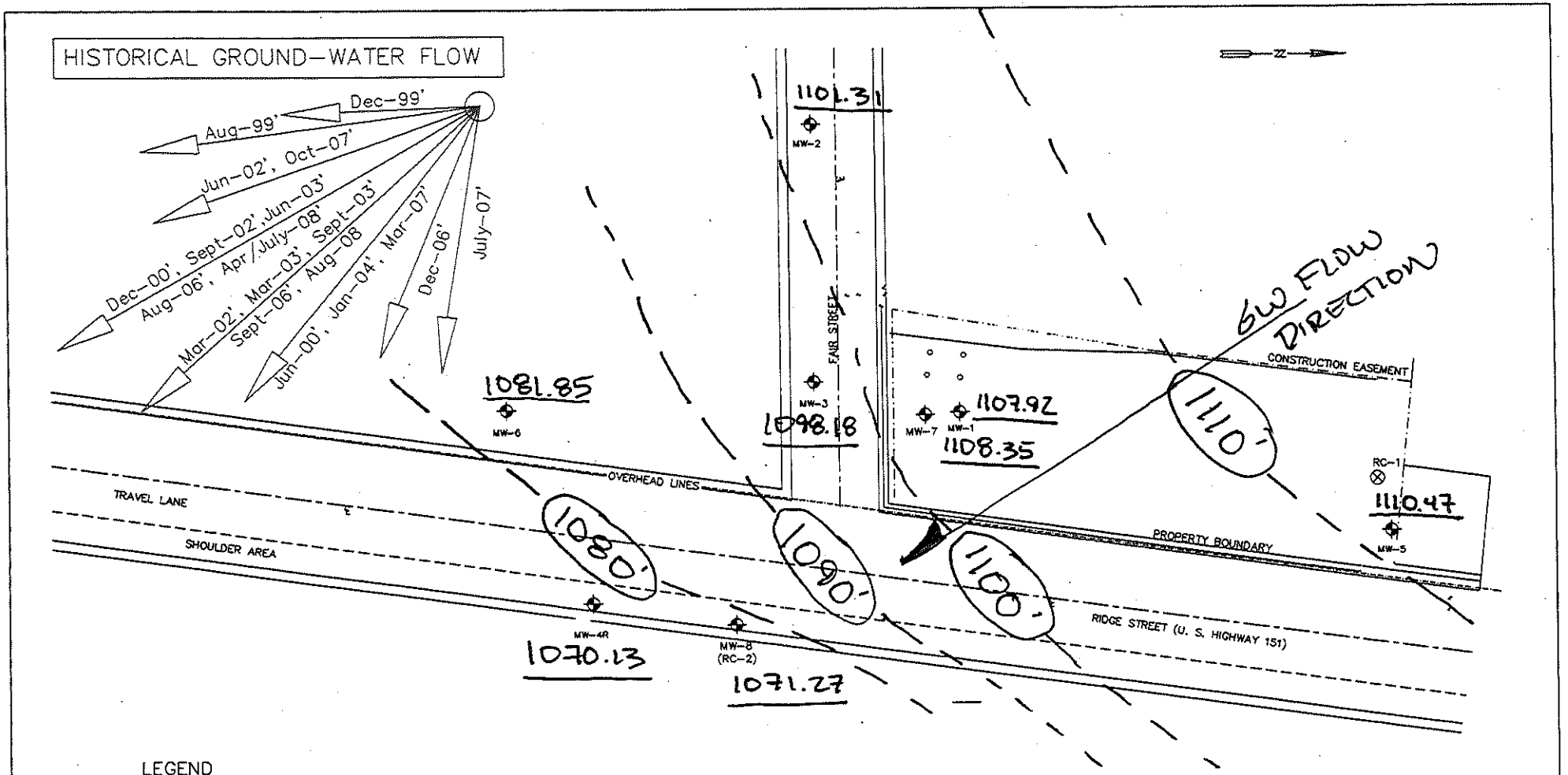



GW-dbase
1/22/09

PIONEER ENVIRONMENTAL INC


HISTORICAL GROUND-WATER FLOW
1200
0/00
1200
0002
6/00
RESIDENCE
RESIDENCE
RESIDENCE
MW-2
MW-3
MW-6
FAIR STREET
GAS
ELECTRIC
PROPERTY BOUNDARY
PREMIUM
UNLEADED
UNLEADED
MW-7
MW-1
KWIK TRIP STORE NO. 768
SIDEWALK
RC-1
WATER
ACCESS EASEMENT
MW-5
PROPERTY BOUNDARY
SANITARY SEWER
STORM SEWER
OVERHEAD LINES
TRAVEL LANE
SHOULDER AREA
MW-4R
MW-8 (RC-2)
RIDGE STREET (U. S. HIGHWAY 151)
OVERHEAD LINES
FORMER HIGH SCHOOL
RESIDENCE
RESIDENCE
LEGEND
MONITORING WELL \ PIEZOMETER
MW-1
ROCK CORE BORING
RC-1
*ALL BUILDING LOCATIONS ARE APPROXIMATE
SCALE IN FEET
DATE: 04/16/03
REVISION:
DISK: KWIKTRIPAKT768
FILE: LAYOUT.CAD
DRAWN:
CHECKED:
KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN
SITE LAYOUT MAP
PIONEER ENVIRONMENTAL INC.
203 1/2 East Main Street
Mount Horeb, WI 53572
FIGURE:
1


HISTORICAL GROUND-WATER FLOW
Dec-99'
Aug-99'
Jun-02', Oct-07'
Dec-00', Sept-02', Jun-03'
Aug-06', Apr/July-08'
Mar-02', Mar-03', Sept-03'
Sept-06', Aug-08
Jun-00', Jan-04', Mar-07'
Dec-06'
July-07'
MW-2
< 0.25
MW-3
210
MW-6
< 0.25
MW-7
2800
MW-1
10,000
EXTENT OF PETROLEUM CONTAMINATION ABOVE NR140 PAL
EXTENT OF PETROLEUM CONTAMINATION ABOVE NR140 ES
PROPERTY BOUNDARY
PREMIUM UNLEADED
UNLEADED
KWIK TRIP STORE NO. 768
RC-1
< 0.25
MW-5
PROPERTY BOUNDARY
OVERHEAD LINES
TRAVEL LANE
SHOULDER AREA
ES-5.0
PAL-0.5
< 0.25
MW-4R
< 1.8
MW-8
(RC-2)
RIDGE STREET (U. S. HIGHWAY 151)
LEGEND
MW-1 EXISTING MONITORING WELL BORING LOCATION
< 0.25 BENZENE CONCENTRATION (UG/L)
*ALL BUILDING LOCATIONS ARE APPROXIMATE
0 40
SCALE IN FEET
DATE: 12/3/08
REVISION: 1
DISK: PROJECTS/KT/KT768
FILE: gw-flow
DRAWN:
CHECKED:
KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN
GROUNDWATER BENZENE CONTAMINATION MAP
JULY 24, 2008
PIONEER ENVIRONMENTAL INC
MOUNT HOREB, WI
FIGURE:
1




GW ELEVATION CONTOURS

| | | | |
|---|---|---|---|
| DATE: 12/3/06 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC MOUNT HOREB, WI | FIGURE: 1 |
| REVISION: 1 | | | |
| DISK: PROJECTS/KT/KT768 | | | |
| FILE: gw-flow | | | |
| DRAWN: CHECKED: | GROUNDWATER FLOW MAP July 24, 2008 | | |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 8/18/1999 | 41.66 | - | 1145.22 | 1095.22 | 1080.22 | **1103.56** | - | - |
| MW-1 | 8/20/1999 | 41.78 | - | 1145.22 | 1095.22 | 1080.22 | **1103.44** | - | - |
| MW-1 | 9/14/1999 | 42.42 | - | 1145.22 | 1095.22 | 1080.22 | **1102.80** | - | - |
| MW-1 | 12/9/1999 | 44.46 | 44.41 | 1145.22 | 1095.22 | 1080.22 | **1100.76** | 0.05 | **1100.80** |
| MW-1 | 12/29/1999 | 44.48 | - | 1145.22 | 1095.22 | 1080.22 | **1100.74** | - | - |
| MW-1 | 1/24/2000 | 44.89 | - | 1145.22 | 1095.22 | 1080.22 | **1100.33** | - | - |
| MW-1 | 2/23/2000 | 45.59 | - | 1145.22 | 1095.22 | 1080.22 | **1099.63** | - | - |
| MW-1 | 3/10/2000 | 45.90 | - | 1145.22 | 1095.22 | 1080.22 | **1099.32** | - | - |
| MW-1 | 6/22/2000 | 45.91 | 44.87 | 1145.22 | 1095.22 | 1080.22 | **1099.31** | 1.04 | **1100.10** |
| MW-1 | 9/20/2000 | 40.31 | 40.29 | 1145.22 | 1095.22 | 1080.22 | **1104.91** | 0.02 | **1104.93** |
| MW-1 | 12/19/2000 | 43.44 | -* | 1145.22 | 1095.22 | 1080.22 | **1101.78** | - | - |
| MW-1 | 1/11/2001 | 45.15 | 44.55 | 1145.22 | 1095.22 | 1080.22 | **1100.07** | 0.60 | **1100.53** |
| MW-1 | 2/22/2001 | 44.47 | 44.46 | 1145.22 | 1095.22 | 1080.22 | **1100.75** | 0.01 | **1100.76** |
| MW-1 | 8/29/2001 | 41.26 | - | 1145.22 | 1095.22 | 1080.22 | **1103.96** | - | - |
| MW-1 | 9/21/2001 | 41.40 | - | 1145.22 | 1095.22 | 1080.22 | **1103.82** | - | - |
| MW-1 | 11/29/2001 | 43.51 | 43.50 | 1145.22 | 1095.22 | 1080.22 | **1101.71** | 0.01 | **1101.72** |
| MW-1 | 12/18/2001 | 42.02 | - | 1145.22 | 1095.22 | 1080.22 | **1103.20** | - | - |
| MW-1 | 1/30/2002 | 43.07 | 42.68 | 1145.22 | 1095.22 | 1080.22 | **1102.15** | 0.39 | **1102.45** |
| MW-1 | 2/21/2002 | 43.49 | - | 1145.22 | 1095.22 | 1080.22 | **1101.73** | - | - |
| MW-1 | 3/21/2002 | 43.64 | 43.63 | 1145.22 | 1095.22 | 1080.22 | **1101.58** | 0.01 | **1101.59** |
| MW-1 | 4/30/2002 | 43.81 | - | 1145.22 | 1095.22 | 1080.22 | **1101.41** | - | - |
| MW-1 | 6/4/2002 | 42.85 | - | 1145.22 | 1095.22 | 1080.22 | **1102.37** | - | - |
| MW-1 | 7/22/2002 | 41.96 | 41.90 | 1145.22 | 1095.22 | 1080.22 | **1103.26** | 0.06 | **1103.31** |
| MW-1 | 9/4/2002 | 42.09 | - | 1145.22 | 1095.22 | 1080.22 | **1103.13** | - | - |
| MW-1 | 3/18/2003 | 44.23 | 44.20 | 1145.22 | 1095.22 | 1080.22 | **1100.99** | 0.03 | **1101.01** |
| MW-1 | 4/21/2003 | 44.55 | - | 1145.22 | 1095.22 | 1080.22 | **1100.67** | - | - |
| MW-1 | 6/3/2003 | 44.38 | - | 1145.22 | 1095.22 | 1080.22 | **1100.84** | - | - |
| MW-1 | 7/23/2003 | 44.03 | - | 1145.22 | 1095.22 | 1080.22 | **1101.19** | - | - |
| MW-1 | 10/7/2003 | 43.40 | - | 1145.22 | 1095.22 | 1080.22 | **1101.82** | - | - |
| MW-1 | 10/31/2003 | 45.06 | - | 1145.22 | 1095.22 | 1080.22 | **1100.16** | - | - |
| MW-1 | 1/7/2004 | 42.32 | - | 1145.22 | 1095.22 | 1080.22 | **1102.90** | - | - |
| MW-1 | 7/20/2004 | 40.46 | - | 1145.22 | 1095.22 | 1080.22 | **1104.76** | - | - |
| MW-1 | 8/3/2006 | 43.62 | - | 1145.22 | 1095.22 | 1080.22 | **1101.60** | - | - |
| MW-1 | 9/28/2006 | 42.72 | - | 1145.22 | 1095.22 | 1080.22 | **1102.50** | - | - |
| MW-1 | 12/20/2006 | 43.85 | - | 1145.22 | 1095.22 | 1080.22 | **1101.37** | - | - |
| MW-1 | 3/26/2007 | 45.03 | - | 1145.22 | 1095.22 | 1080.22 | **1100.19** | - | - |
| MW-1 | 7/2/2007 | 41.65 | 41.64 | 1145.22 | 1095.22 | 1080.22 | **1103.57** | - | - |
| MW-1 | 10/1/2007 | 37.83 | 37.82 | 1145.22 | 1095.22 | 1080.22 | **1107.39** | - | - |
| MW-1 | 4/23/2008 | 36.78 | - | 1145.22 | 1095.22 | 1080.22 | **1108.44** | - | - |
| MW-1 | 7/24/2008 | 37.30 | - | 1145.22 | 1095.22 | 1080.22 | **1107.92** | - | - |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 6/3/2003 | 41.75 | - | 1136.10 | 1101.10 | 1086.10 | **1094.35** | - | - |
| MW-2 | 7/23/2003 | 41.05 | - | 1136.10 | 1101.10 | 1086.10 | **1095.05** | - | - |
| MW-2 | 10/7/2003 | 40.88 | - | 1136.10 | 1101.10 | 1086.10 | **1095.22** | - | - |
| MW-2 | 1/7/2004 | 39.32 | - | 1136.10 | 1101.10 | 1086.10 | **1096.78** | - | - |
| MW-2 | 7/20/2004 | 36.10 | - | 1136.10 | 1101.10 | 1086.10 | **1100.00** | - | - |
| MW-2 | 8/3/2006 | 38.27 | - | 1136.10 | 1101.10 | 1086.10 | **1097.83** | - | - |
| MW-2 | 9/28/2006 | 38.26 | - | 1136.10 | 1101.10 | 1086.10 | **1097.84** | - | - |
| MW-2 | 12/20/2006 | 39.37 | - | 1136.10 | 1101.10 | 1086.10 | **1096.73** | - | - |
| MW-2 | 3/26/2007 | 40.19 | - | 1136.10 | 1101.10 | 1086.10 | **1095.91** | - | - |
| MW-2 | 7/2/2007 | 37.28 | - | 1136.10 | 1101.10 | 1086.10 | **1098.82** | - | - |
| MW-2 | 10/1/2007 | 34.75 | - | 1136.10 | 1101.10 | 1086.10 | **1101.35** | - | - |
| MW-2 | 4/23/2008 | 33.38 | - | 1136.10 | 1101.10 | 1086.10 | **1102.72** | - | - |
| MW-2 | 7/24/2008 | 34.79 | - | 1136.10 | 1101.10 | 1086.10 | **1101.31** | - | - |
| MW-3 | 8/18/1999 | 43.20 | - | 1139.15 | 1104.15 | 1089.15 | **1095.95** | - | - |
| MW-3 | 8/20/1999 | 43.35 | - | 1139.15 | 1104.15 | 1089.15 | **1095.80** | - | - |
| MW-3 | 9/14/1999 | 44.01 | - | 1139.15 | 1104.15 | 1089.15 | **1095.14** | - | - |
| MW-3 | 12/9/1999 | 46.33 | - | 1139.15 | 1104.15 | 1089.15 | **1092.82** | - | - |
| MW-3 | 3/10/2000 | 47.95 | - | 1139.15 | 1104.15 | 1089.15 | **1091.20** | - | - |
| MW-3 | 6/22/2000 | 46.63 | 44.87 | 1139.15 | 1104.15 | 1089.15 | **1092.52** | 1.76 | **1093.86** |
| MW-3 | 9/20/2000 | 44.54 | 44.23 | 1139.15 | 1104.15 | 1089.15 | **1094.61** | 0.31 | **1094.85** |
| MW-3 | 12/19/2000 | 46.56 | 46.25 | 1139.15 | 1104.15 | 1089.15 | **1092.59** | 0.31 | **1092.83** |
| MW-3 | 1/11/2001 | 46.96 | 46.83 | 1139.15 | 1104.15 | 1089.15 | **1092.19** | 0.13 | **1092.29** |
| MW-3 | 2/22/2001 | 47.65 | 47.48 | 1139.15 | 1104.15 | 1089.15 | **1091.50** | 0.17 | **1091.63** |
| MW-3 | 8/29/2001 | 44.17 | 43.99 | 1139.15 | 1104.15 | 1089.15 | **1094.98** | 0.18 | **1095.12** |
| MW-3 | 10/16/2001 | 44.10 | 44.05 | 1139.15 | 1104.15 | 1089.15 | **1095.05** | 0.05 | **1095.09** |
| MW-3 | 11/29/2001 | 44.61 | 44.44 | 1139.15 | 1104.15 | 1089.15 | **1094.54** | 0.17 | **1094.67** |
| MW-3 | 12/18/2001 | 44.85 | 44.70 | 1139.15 | 1104.15 | 1089.15 | **1094.30** | 0.15 | **1094.41** |
| MW-3 | 1/30/2002 | 45.65 | 45.48 | 1139.15 | 1104.15 | 1089.15 | **1093.50** | 0.17 | **1093.63** |
| MW-3 | 2/21/2002 | 46.15 | 46.13 | 1139.15 | 1104.15 | 1089.15 | **1093.00** | 0.02 | **1093.02** |
| MW-3 | 3/21/2002 | 46.73 | 46.60 | 1139.15 | 1104.15 | 1089.15 | **1092.42** | 0.13 | **1092.52** |
| MW-3 | 4/30/2002 | 46.31 | - | 1139.15 | 1104.15 | 1089.15 | **1092.84** | - | - |
| MW-3 | 6/4/2002 | 45.28 | - | 1139.15 | 1104.15 | 1089.15 | **1093.87** | - | - |
| MW-3 | 7/12/2002 | 43.96 | - | 1139.15 | 1104.15 | 1089.15 | **1095.19** | - | - |
| MW-3 | 9/4/2002 | 44.93 | - | 1139.15 | 1104.15 | 1089.15 | **1094.22** | - | - |
| MW-3 | 3/18/2003 | 47.88 | 47.66 | 1139.15 | 1104.15 | 1089.15 | **1091.27** | 0.22 | **1091.44** |
| MW-3 | 4/21/2003 | 48.22 | 48.00 | 1139.15 | 1104.15 | 1089.15 | **1090.93** | 0.22 | **1091.10** |
| MW-3 | 6/3/2003 | 49.53 | 47.82 | 1139.15 | 1104.15 | 1089.15 | **1089.62** | 1.71 | **1090.92** |
| MW-3 | 7/23/2003 | 48.82 | 47.54 | 1139.15 | 1104.15 | 1089.15 | **1090.33** | 1.28 | **1091.30** |
| MW-3 | 10/7/2003 | 48.53 | 47.53 | 1139.15 | 1104.15 | 1089.15 | **1090.62** | 1.00 | **1091.38** |
| MW-3 | 10/31/2003 | 45.44 | - | 1139.15 | 1104.15 | 1089.15 | **1093.71** | - | - |
| MW-3 | 1/7/2004 | 46.75 | 45.92 | 1139.15 | 1104.15 | 1089.15 | **1092.40** | 0.83 | **1093.03** |
| MW-3 | 7/20/2004 | 43.10 | 42.92 | 1139.15 | 1104.15 | 1089.15 | **1096.05** | 0.18 | **1096.19** |
| MW-3 | 8/3/2006 | 47.10 | 45.28 | 1139.15 | 1104.15 | 1089.15 | **1092.05** | 1.82 | **1093.43** |
| MW-3 | 9/28/2006 | 45.26 | 45.24 | 1139.15 | 1104.15 | 1089.15 | **1093.89** | 0.02 | **1093.91** |
| MW-3 | 12/20/2006 | 46.33 | 46.33 | 1139.15 | 1104.15 | 1089.15 | **1092.82** | 0.00 | **1092.82** |
| MW-3 | 3/26/2007 | 47.32 | 47.31 | 1139.15 | 1104.15 | 1089.15 | **1091.83** | 0.01 | **1091.84** |
| MW-3 | 7/2/2007 | 44.58 | 44.05 | 1139.15 | 1104.15 | 1089.15 | **1094.57** | 0.53 | **1094.97** |
| MW-3 | 10/1/2007 | 41.76 | 41.35 | 1139.15 | 1104.15 | 1089.15 | **1097.39** | 0.41 | **1097.70** |
| MW-3 | 4/23/2008 | 40.45 | 40.20 | 1139.15 | 1104.15 | 1089.15 | **1098.70** | 0.25 | **1098.89** |
| MW-3 | 7/24/2008 | 41.15 | 40.91 | 1139.15 | 1104.15 | 1089.15 | **1098.00** | 0.24 | **1098.18** |
| MW-4 | 8/18/1999 | dry | - | 1138.00 | 1103.00 | 1088.00 | - | - | - |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-4R | 8/20/1999 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 9/14/1999 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 12/9/1999 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/10/2000 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 6/22/2000 | 67.45 | - | 1138.24 | 1073.24 | 1068.24 | **1070.79** | - | - |
| MW-4R | 9/20/2000 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 12/19/2000 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 10/16/2001 | 69.13 | - | 1138.24 | 1073.24 | 1068.24 | **1069.11** | - | - |
| MW-4R | 12/18/2001 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/21/2002 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 6/4/2002 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 9/4/2002 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/18/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 6/3/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 7/23/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 10/7/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 1/7/2004 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 7/20/2004 | 68.44 | - | 1138.24 | 1073.24 | 1068.24 | **1069.80** | - | - |
| MW-4R | 8/3/2006 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 9/28/2006 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 12/20/2006 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/26/2007 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 7/2/2007 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 10/1/2008 | 68.04 | - | 1138.24 | 1073.24 | 1068.24 | **1070.20** | - | - |
| MW-4R | 4/23/2008 | 66.57 | - | 1138.24 | 1073.24 | 1068.24 | **1071.67** | - | - |
| MW-4R | 7/24/2008 | 68.11 | - | 1138.24 | 1073.24 | 1068.24 | **1070.13** | - | - |
| MW-5 | 8/20/1999 | 42.37 | - | 1148.91 | 1111.91 | 1096.91 | **1106.54** | - | - |
| MW-5 | 9/14/1999 | 44.27 | - | 1148.91 | 1111.91 | 1096.91 | **1104.64** | - | - |
| MW-5 | 12/9/1999 | 47.99 | - | 1148.91 | 1111.91 | 1096.91 | **1100.92** | - | - |
| MW-5 | 12/9/1999 | 47.99 | - | 1148.91 | 1111.91 | 1096.91 | **1100.92** | - | - |
| MW-5 | 3/10/2000 | 50.55 | - | 1148.91 | 1111.91 | 1096.91 | **1098.36** | - | - |
| MW-5 | 6/22/2000 | 45.24 | - | 1148.91 | 1111.91 | 1096.91 | **1103.67** | - | - |
| MW-5 | 9/20/2000 | 43.62 | - | 1148.91 | 1111.91 | 1096.91 | **1105.29** | - | - |
| MW-5 | 12/19/2000 | 47.59 | - | 1148.91 | 1111.91 | 1096.91 | **1101.32** | - | - |
| MW-5 | 10/16/2001 | 44.35 | - | 1148.91 | 1111.91 | 1096.91 | **1104.56** | - | - |
| MW-5 | 12/18/2001 | 45.93 | - | 1148.91 | 1111.91 | 1096.91 | **1102.98** | - | - |
| MW-5 | 3/21/2002 | 48.54 | - | 1148.91 | 1111.91 | 1096.91 | **1100.37** | - | - |
| MW-5 | 6/4/2002 | 46.63 | - | 1148.91 | 1111.91 | 1096.91 | **1102.28** | - | - |
| MW-5 | 9/4/2002 | 46.08 | - | 1148.91 | 1111.91 | 1096.91 | **1102.83** | - | - |
| MW-5 | 3/18/2003 | 49.91 | - | 1148.91 | 1111.91 | 1096.91 | **1099.00** | - | - |
| MW-5 | 6/3/2003 | 49.71 | - | 1148.91 | 1111.91 | 1096.91 | **1099.20** | - | - |
| MW-5 | 7/23/2003 | 49.25 | - | 1148.91 | 1111.91 | 1096.91 | **1099.66** | - | - |
| MW-5 | 10/7/2003 | 49.01 | - | 1148.91 | 1111.91 | 1096.91 | **1099.90** | - | - |
| MW-5 | 1/7/2004 | 47.57 | - | 1148.91 | 1111.91 | 1096.91 | **1101.34** | - | - |
| MW-5 | 7/20/2004 | 41.84 | - | 1148.91 | 1111.91 | 1096.91 | **1107.07** | - | - |
| MW-5 | 8/3/2006 | 46.64 | - | 1148.91 | 1111.91 | 1096.91 | **1102.27** | - | - |
| MW-5 | 9/28/2006 | 46.41 | - | 1148.91 | 1111.91 | 1096.91 | **1102.50** | - | - |
| MW-5 | 12/20/2006 | 47.97 | - | 1148.91 | 1111.91 | 1096.91 | **1100.94** | - | - |
| MW-5 | 3/26/2007 | 49.14 | - | 1148.91 | 1111.91 | 1096.91 | **1099.77** | - | - |
| MW-5 | 7/2/2007 | 44.59 | - | 1148.91 | 1111.91 | 1096.91 | **1104.32** | - | - |
| MW-5 | 10/1/2007 | 38.64 | - | 1148.91 | 1111.91 | 1096.91 | **1110.27** | - | - |
| MW-5 | 4/23/2008 | 34.79 | - | 1148.91 | 1111.91 | 1096.91 | **1114.12** | - | - |
| MW-5 | 7/24/2008 | 38.44 | - | 1148.91 | 1111.91 | 1096.91 | **1110.47** | - | - |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 8/20/1999 | 54.57 | - | 1134.57 | 1087.57 | 1072.57 | **1080.00** | - | - |
| MW-6 | 9/14/1999 | 56.50 | - | 1134.57 | 1087.57 | 1072.57 | **1078.07** | - | - |
| MW-6 | 12/9/1999 | 57.12 | - | 1134.57 | 1087.57 | 1072.57 | **1077.45** | - | - |
| MW-6 | 3/10/2000 | 57.40 | - | 1134.57 | 1087.57 | 1072.57 | **1077.17** | - | - |
| MW-6 | 6/22/2000 | 55.74 | - | 1134.57 | 1087.57 | 1072.57 | **1078.83** | - | - |
| MW-6 | 9/20/2000 | 56.75 | - | 1134.57 | 1087.57 | 1072.57 | **1077.82** | - | - |
| MW-6 | 12/19/2000 | 57.09 | - | 1134.57 | 1087.57 | 1072.57 | **1077.48** | - | - |
| MW-6 | 10/16/2001 | 56.48 | - | 1134.57 | 1087.57 | 1072.57 | **1078.09** | - | - |
| MW-6 | 12/18/2001 | 56.91 | - | 1134.57 | 1087.57 | 1072.57 | **1077.66** | - | - |
| MW-6 | 3/21/2002 | 57.11 | - | 1134.57 | 1087.57 | 1072.57 | **1077.46** | - | - |
| MW-6 | 6/4/2002 | 56.61 | - | 1134.57 | 1087.57 | 1072.57 | **1077.96** | - | - |
| MW-6 | 9/4/2002 | 56.90 | - | 1134.57 | 1087.57 | 1072.57 | **1077.67** | - | - |
| MW-6 | 3/18/2003 | 57.27 | - | 1134.57 | 1087.57 | 1072.57 | **1077.30** | - | - |
| MW-6 | 6/3/2003 | 56.94 | - | 1134.57 | 1087.57 | 1072.57 | **1077.63** | - | - |
| MW-6 | 7/23/2003 | 56.90 | - | 1134.57 | 1087.57 | 1072.57 | **1077.67** | - | - |
| MW-6 | 10/7/2003 | 56.87 | - | 1134.57 | 1087.57 | 1072.57 | **1077.70** | - | - |
| MW-6 | 1/7/2004 | 56.71 | - | 1134.57 | 1087.57 | 1072.57 | **1077.86** | - | - |
| MW-6 | 7/20/2004 | 55.97 | - | 1134.57 | 1087.57 | 1072.57 | **1078.60** | - | - |
| MW-6 | 8/3/2006 | 53.87 | - | 1134.57 | 1087.57 | 1072.57 | **1080.70** | - | - |
| MW-6 | 9/28/2006 | 54.61 | - | 1134.57 | 1087.57 | 1072.57 | **1079.96** | - | - |
| MW-6 | 12/20/2006 | 54.94 | - | 1134.57 | 1087.57 | 1072.57 | **1079.63** | - | - |
| MW-6 | 3/26/2007 | 54.56 | - | 1134.57 | 1087.57 | 1072.57 | **1080.01** | - | - |
| MW-6 | 7/2/2007 | 54.09 | - | 1134.57 | 1087.57 | 1072.57 | **1080.48** | - | - |
| MW-6 | 10/1/2007 | 53.31 | - | 1134.57 | 1087.57 | 1072.57 | **1081.26** | - | - |
| MW-6 | 4/23/2008 | 49.76 | - | 1134.57 | 1087.57 | 1072.57 | **1084.81** | - | - |
| MW-6 | 7/24/2008 | 52.72 | - | 1134.57 | 1087.57 | 1072.57 | **1081.85** | - | - |
| MW-7 | 6/3/2003 | 42.70 | - | 1144.97 | 1109.97 | 1099.97 | **1102.27** | - | - |
| MW-7 | 7/23/2003 | 43.21 | - | 1144.97 | 1109.97 | 1099.97 | **1101.76** | - | - |
| MW-7 | 10/7/2003 | 43.21 | - | 1144.97 | 1109.97 | 1099.97 | **1101.76** | - | - |
| MW-7 | 1/7/2004 | 41.41 | - | 1144.97 | 1109.97 | 1099.97 | **1103.56** | - | - |
| MW-7 | 7/20/2004 | 39.35 | - | 1144.97 | 1109.97 | 1099.97 | **1105.62** | - | - |
| MW-7 | 8/3/2006 | 41.92 | - | 1144.97 | 1109.97 | 1099.97 | **1103.05** | - | - |
| MW-7 | 9/28/2006 | 41.52 | - | 1144.97 | 1109.97 | 1099.97 | **1103.45** | - | - |
| MW-7 | 12/20/2006 | 41.95 | - | 1144.97 | 1109.97 | 1099.97 | **1103.02** | - | - |
| MW-7 | 3/26/2007 | 42.74 | - | 1144.97 | 1109.97 | 1099.97 | **1102.23** | - | - |
| MW-7 | 7/2/2007 | 40.76 | - | 1144.97 | 1109.97 | 1099.97 | **1104.21** | - | - |
| MW-7 | 10/1/2007 | 36.95 | - | 1144.97 | 1109.97 | 1099.97 | **1108.02** | - | - |
| MW-7 | 4/23/2008 | 36.32 | - | 1144.97 | 1109.97 | 1099.97 | **1108.65** | - | - |
| MW-7 | 7/24/2008 | 36.62 | - | 1144.97 | 1109.97 | 1099.97 | **1108.35** | - | - |
| MW-8 | 6/3/2003 | 73.63 | - | 1139.80 | 1084.80 | 1064.80 | **1066.17** | - | - |
| MW-8 | 7/23/2003 | 73.28 | - | 1139.80 | 1084.80 | 1064.80 | **1066.52** | - | - |
| MW-8 | 10/7/2003 | 72.59 | - | 1139.80 | 1084.80 | 1064.80 | **1067.21** | - | - |
| MW-8 | 1/7/2004 | 72.11 | - | 1139.80 | 1084.80 | 1064.80 | **1067.69** | - | - |
| MW-8 | 7/20/2004 | 70.21 | - | 1139.80 | 1084.80 | 1064.80 | **1069.59** | - | - |
| MW-8 | 8/3/2006 | 71.74 | - | 1139.80 | 1084.80 | 1064.80 | **1068.06** | - | - |
| MW-8 | 9/28/2006 | 71.43 | - | 1139.80 | 1084.80 | 1064.80 | **1068.37** | - | - |
| MW-8 | 12/20/2006 | 72.48 | - | 1139.80 | 1084.80 | 1064.80 | **1067.32** | - | - |
| MW-8 | 3/26/2007 | 72.62 | - | 1139.80 | 1084.80 | 1064.80 | **1067.18** | - | - |
| MW-8 | 7/2/2007 | 71.56 | - | 1139.80 | 1084.80 | 1064.80 | **1068.24** | - | - |
| MW-8 | 10/1/2007 | 69.91 | - | 1139.80 | 1084.80 | 1064.80 | **1069.89** | - | - |
| MW-8 | 4/23/2008 | 68.53 | - | 1139.80 | 1084.80 | 1064.80 | **1071.27** | - | - |
| MW-8 | 7/24/2008 | 68.53 | - | 1139.80 | 1084.80 | 1064.80 | **1071.27** | - | - |

Note : All elevations are referenced to mean sea level

TABLE 3

# KWIK TRIP, INC.
# STATION NO. 768
# MINERAL POINT, WISCONSIN

## FREE PRODUCT MEASUREMENTS & BAILING/PUMPING

(Data compiled on Commerce Database, & Downloaded)

**Well Name: MW-1** Top of Well: 50 1145.28

| Sample Date (mm/dd/yyyy) | Depth To Water (ft) | Depth To Product (ft) | Product Thickness (ft) | Product Removed (gallons) | Cumulative Removed (gallons) | Bid To Scope Well Purging/Pumping: Approx. Well Volume (gallons) | Approx. Purge Total (gallons) |
|---|---|---|---|---|---|---|---|
| 7/24/2008 | 37.30 | 37.30 | 0.00 | 5 | 228 | sampling only | |
| 4/23/2008 | 36.78 | 36.78 | 0.00 | 5 | 223 | sampling only | |
| 10/1/2007 | 37.83 | 37.82 | 0.01 | 5 | 218 | sampling only | |
| 7/2/2007 | 41.65 | 41.62 | 0.03 | 5 | 213 | sampling only | |
| 3/26/2007 | 45.03 | 45.03 | 0.00 | 20 | 208 | 3.25 | 20 |
| 2/15/2007 | 44.34 | 44.33 | 0.01 | 24 | 188 | 3.5 | 24 |
| 1/15/2007 | 43.80 | 43.79 | 0.01 | 12 | 164 | 3.5 | 12 |
| 12/20/2006 | 43.85 | 43.84 | 0.01 | 20 | 152 | 3.5 | 20 |
| 11/15/2006 | 43.13 | 43.11 | 0.02 | 18 | 132 | 3.75 | 18 |
| 10/23/2006 | 42.57 | 42.55 | 0.02 | 24 | 114 | 3.75 | 30 |
| 9/28/2006 | 42.72 | 42.72 | 0.00 | 18 | 90 | 3.75 | 18 |
| 8/28/2006 | 42.77 | 42.77 | 0.00 | 18 | 72 | 3.75 | 18 |
| 8/3/2006 | 43.62 | 43.62 | 0.00 | 15 | 54 | 3.5 | 15 |
| 6/26/2006 | 42.33 | 42.33 | 0.00 | 15 | 39 | 3.75 | 15 |
| 5/30/2006 | 43.94 | 43.94 | 0.00 | 12 | 24 | 3.5 | 12 |
| 4/21/2006 | 45.60 | 45.60 | 0.00 | 12 | 12 | 3.25 | 12 |

**Well Name: MW-3** Top of Well: 35 1139.15

| Sample Date (mm/dd/yyyy) | Depth To Water (ft) | Depth To Product (ft) | Product Thickness (ft) | Product Removed (gallons) | Cumulative Removed (gallons) | Bid To Scope Well Purging/Pumping: Approx. Well Volume (gallons) | Approx. Purge Total (gallons) |
|---|---|---|---|---|---|---|---|
| 7/24/2008 | 41.15 | 40.91 | 0.24 | 1 | 50 | sampling only | |
| 4/23/2008 | 40.45 | 40.20 | 0.25 | 1 | 49 | sampling only | |
| 10/1/2007 | 41.76 | 41.35 | 0.41 | 1 | 48 | sampling only | |
| 7/2/2007 | 44.58 | 44.05 | 0.53 | 1 | 47 | sampling only | |
| 3/26/2007 | 47.32 | 47.31 | 0.01 | 3 | 46 | 0.5 | 3 |
| 2/15/2007 | 47.46 | 47.44 | 0.02 | 2 | 43 | 0.5 | 2 |
| 1/15/2007 | 46.96 | 46.92 | 0.04 | 3 | 41 | 0.5 | 3 |
| 12/20/2006 | 46.33 | 46.32 | 0.01 | 3 | 38 | 0.5 | 3 |
| 11/15/2006 | 45.37 | 45.34 | 0.03 | 3 | 35 | 0.75 | 3 |
| 10/23/2006 | 45.40 | 45.37 | 0.03 | 5 | 32 | 0.75 | 5 |
| 9/28/2006 | 45.26 | 45.24 | 0.02 | 3 | 27 | 0.75 | 3 |
| 8/28/2006 | 45.89 | 45.45 | 0.44 | 4 | 24 | 0.75 | 4 |
| 8/3/2006 | 47.10 | 45.28 | 1.82 | 5 | 20 | 1 | 5 |
| 6/26/2006 | 49.22 | 45.32 | 3.90 | 5 | 15 | 1 | 5 |
| 5/30/2006 | 48.10 | 45.40 | 2.70 | 5 | 10 | 0.5 | 5 |
| 4/21/2006 | 49.15 | 47.75 | 1.40 | 5 | 5 | 0.5 | 5 |

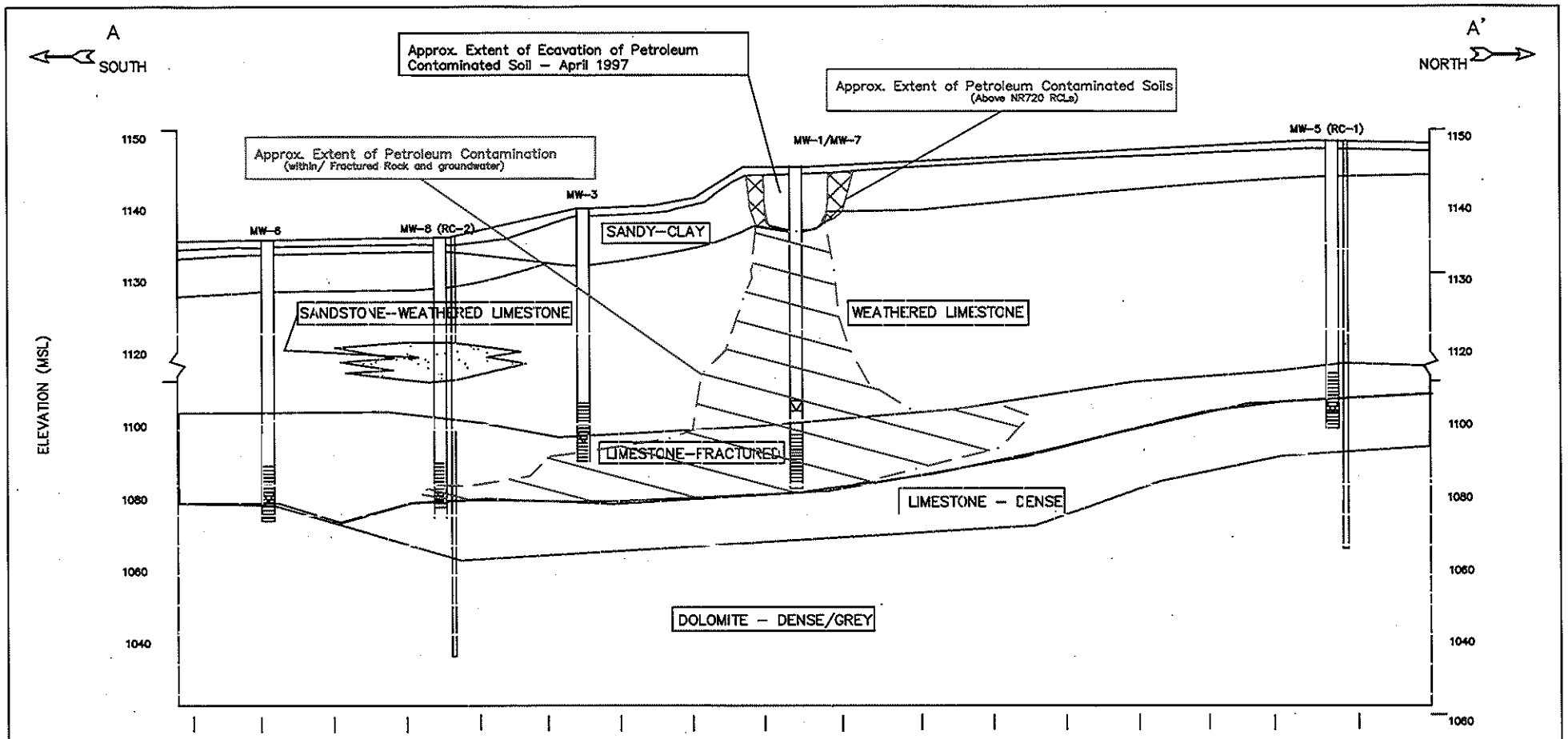
Note: Top of Well (as noted on Commerce Website) is used to show top of casing

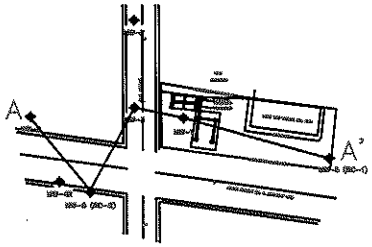
Note: Product Removed - represents a mixture of free phase petroleum product and petroleum contaminated water

Note: MW-1 - Purging was accomplished by pumping water column down to 55-65 feet bls, allowing the water table to recover, then another pumping cycle, then recovery until 3 complete cycles were performed.

Note: MW-3 - Due to small well volume, and poor recovery, well was purged by bailing dry well, allowing to recover (partially - due to slow recovery) then another bailing cycle, then recovery until 3 complete cycles were performed.

Note: All wells were monitored after well purging/pumping events were completed. No noticeable drawdown effects were observed.




CROSS-SECTION TRANSECT

| | | | |
|---|---|---|---|
| DATE: 9/30/04 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC 203 1/2 EAST MAIN STREET MOUNT HOREB, WI | FIGURE: 4 |
| REVISION: 0 | GEOLOGIC CROSS SECTION A–A' | | |
| DISK: Projects\KT\KT768\ | | | |
| FILE: CSECTION.DWG | | | |
| DRAWN: CHECKED: | | | |

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION F - ATTACHMENTS

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION G - ATTACHMENTS

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

(BRRTS # 03-25-113363 & PECFA # 53565-1440-35-A)

## SECTION H - ATTACHMENTS

# GIS Registry Checklist

Form 4400-245 (R 4/08)



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 #: 03-25-113363 PARCEL ID #: 251-0771.A & .C

ACTIVITY NAME: Kwik Trip Store 768 WTM COORDINATES: X: 504587 Y: 265119

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

☒ **Closure Letter**

☐ **Maintenance Plan** *(if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)*

☐ **Conditional Closure Letter**

☐ **Certificate of Completion (COC)** for VPLE sites

## SOURCE LEGAL DOCUMENTS

☒ **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.*

☐ **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:**

☒ **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)(h))

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

☒ **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: Area Location Map**

☒ **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** **Title: Site Layout Map**

☒ **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: Station Upgrade Soil Sample Locations and Excavation Limits**

BRRTS #: 03-25-113363 ACTIVITY NAME: Kwik Trip Store 768

## 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 #: 4** **Title: Geologic X-Section A-A'**

**Figure #:** **Title:**

☒ **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 #: 1** **Title: Groundwater Benzene Contamination 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 #: 1** **Title: Groundwater Contours Map**

**Figure #:** **Title:**

## 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 #: 1A** **Title: Soil Quality Sample - Remaining/Confirmation Soil samples**

☒ **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 #: 3** **Title: Groundwater Quality Database**

☒ **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 #: 1** **Title: Fluid Level Measurements**

## 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 #: 03-25-113363 ACTIVITY NAME: Kwik Trip Store 768

## 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: 2**

12.00

DOCUMENT NO. 201938

STATE BAR OF WISCONSIN FORM 1 — 1982
**WARRANTY DEED**

THIS SPACE RESERVED FOR RECORDING DATA

VOL 0476 PAGE 150

RECORDED
May 24, 1995
10:00 O'CLOCK A M
Marian J. Raess
MARIAN J. RAESS
Iowa County Reg. of Deeds
Dodgeville WI 53533

This Deed, made between Dennis J. Sporle and Ann Sporle, husband and wife, Grantor, and HRZ, a partnership, Grantee,

Witnesseth, That the said Grantor, for a valuable consideration conveys to Grantee the following described real estate in Iowa County, State of Wisconsin:

RETURN TO
Atty. Thomas J. Kieffer
P.O. Box 2107
LaCrosse, WI 54602-2107

Tax Parcel No:

See attached Exhibit "A" for legal description.

$ 294.00
TRANSFER FEE

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

Together with all and singular the hereditaments and appurtenances thereunto belonging;

And warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except municipal and zoning ordiances, easements, covenants and restrictions of record, and those taxes and special assessments accruing in the year of closing

and will warrant and defend the same.

Dated this 23rd day of May, 19 95

(SEAL) Dennis J. Sporle (SEAL)
* Dennis J. Sporle

(SEAL) Ann Sporle (SEAL)
* Ann Sporle

**AUTHENTICATION**

Signature(s) of Dennis J. Sporle and Ann Sporle authenticated this 23 day of May, 1995

Margaret M. Gundlach
* Margaret M. Gundlach
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Attorney Margaret M. Gundlach
Dodgeville, WI 53533
(Signatures may be authenticated or acknowledged. Both are not necessary.)

**ACKNOWLEDGMENT**

STATE OF WISCONSIN } ss.
County.

Personally came before me this day of, 19 the above named

to me known to be the person who executed the foregoing instrument and acknowledge the same.

*
Notary Public County, Wis.
My Commission is permanent. (If not, state expiration date: , 19)

*Names of persons signing in any capacity should be typed or printed below their signatures.

STATE BAR OF WISCONSIN Dane County Title Company

**EXHIBIT "A"**

Part of Lot 7 and part of Lot 6 of Strong's Alteration of the City of Mineral Point, Iowa County, Wisconsin, to-wit: commencing at the Southwest corner of Section 31, Township 5 North, Range 3 East of the 4th P.M.; thence North 00° 17' 10" West, 63.06 feet; thence South 89° 17' 00" East, 713.16 feet along the South line of Lot 8 through Lot 13 of Strong's Alteration of the City of Mineral Point, Iowa County, Wisconsin; thence North 09° 12' 18" East, 110.00 feet along the East line of Lot 7 and Lot 8 of said Strong's Alteration to the point of beginning; thence North 0° 12' 18" East, 100.50 feet along the East line of Lot 6 and Lot 7 of said Strong's Alteration; thence North 83° 34' 07" West, 74.90 feet; thence South 08° 48' 01" West, 108.13 feet; thence South 89° 25' 54" East, 74.90 feet to the point of beginning. The South line of Lot 8 through Lot 13 of Strong's Alteration of the City of Mineral Point, Wisconsin, is assumed to bear South 89° 17' 00" East.

Also conveyed is a construction easement from grantor to grantee, said easement being a permanent, non-revocable easement in order to permit Buyer to comply with Wisconsin Administrative Code 51.03 -- whereby Seller, its purchasers, successors or assigns agree not to construct, operator or maintain any type of structure within said easement area. The easement area shall be defined as:

Part of Lot 7 and part of Lot 6 of Strong's Alteration of the City of Mineral Point, Iowa County, Wisconsin to-wit:

Commencing at the Southwest corner of Section 31, Township 5 North, Range 3 East of the 4th P.M.; thence North 00° 17' 18" West, 63.06 feet; thence South 89° 17' 00" East, 713.16 feet along the South line of Lot 8 through Lot 13 of Strong's Alteration of the City of Mineral Point, Iowa County, Wisconsin; thence North 09° 12' 18" East, 110.00 feet along the East line of Lot 7 and Lot 8 of said Strong's Alteration; thence North 09° 12' 18" East, 100.50 feet along the East line of Lot 6 and Lot 7 of said Strong's Alteration; thence North 83° 34' 07" West, 74.90 feet to the point of beginning; thence continuing North 83° 34' 07" West 10.00 feet; thence South 08° 48' 01" West, 108.13 feet; thence South 89° 25' 54" East, 10.00 feet; thence North 08° 48' 01" East, 108.13 feet to the point of beginning. The South line of Lot 8 through Lot 13 of Strong's Alteration of the City of Mineral Point, Wisconsin, is assumed to bear South 89° 17' 00" East. This easement shall run with the land.

400

DOCUMENT NO.
174906

STATE BAR OF WISCONSIN FORM 3 — 1982
QUIT CLAIM DEED

THIS SPACE RESERVED FOR RECORDING DATA
VOL 0415 PAGE 400

RECORDED
September 19, 1989
9:30 O'CLOCK A M
Lynn T. Martin
LYNN T MARTIN
Iowa County Reg. of Deeds
Dodgeville, WI 53533

H.R.Z. Partnership, a Wisconsin partnership consisting of D.B. Reinhart, Donald P. Zietlow and John J. Hansen

quit-claims to HRZ, a partnership

the following described real estate in Iowa County, State of Wisconsin:

RETURN TO Thomas J. Kieffer
P.O. Box 2107
La Crosse, WI 54602-2107

Tax Parcel No: .....

A part of Lots Number 7 and 8 of Strong's Alteration to the City of Mineral Point described as follows: Commencing 60 feet North and 716 feet East of the Southwest corner of Section 31, Township 5 North, Range 3 East, which is also the Southeast corner of Lot Number 8 as established. Running thence North 10 degrees East along the Westerly line of Ridge Street 110 feet, thence West 78 feet, thence South 10 degrees West 110 feet to the North line of Fair Street, thence East on the North line of Fair Street 78 feet to the point of beginning. All in Iowa County, Wisconsin.

# 13
FEE EXEMPT

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

Dated this 15th day of September, 1989.

H.R.Z. Partnership, By:

(SEAL) (SEAL)

* D.B. Reinhart, Partner

(SEAL) (SEAL)

* John J. Hansen, Partner

* Donald P. Zietlow, Partner

**AUTHENTICATION**

Signature(s) D.B. Reinhart, Donald P. Zietlow and John J. Hansen

authenticated this 14th day of September, 1989.

Thomas J. Kieffer

* Thomas J. Kieffer
TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Thomas J. Kieffer
P.O. Box 2107
La Crosse, WI 54602-2107
(Signatures may be authenticated or acknowledged. Both are not necessary.)

**ACKNOWLEDGMENT**

STATE OF WISCONSIN } ss.
County.

Personally came before me this ..... day of ....., 19..... the above named .....

to me known to be the person ..... who executed the foregoing instrument and acknowledge the same.

*

Notary Public ..... County, Wis.
My Commission is permanent. (If not, state expiration date: ....., 19.....)

4.00

DOCUMENT NO. 170036

ST. E BAR OF WISCONSIN FORM 1 — 1982
**WARRANTY DEED**

THIS SPACE RESERVED FOR RECORDING DATA

VOL 0405 PAGE 151

RECORDED
April 18, 1988
9:30 O'CLOCK A M
Lynn T. Martin
LYNN T. MARTIN
Iowa County Reg. of Deeds
Dodgeville, WI 53533

This Deed, made between Stanley Herrling and Florence E. Herrling, husband and wife, Grantor, and H.R.Z. Partnership, a Wisconsin partnership consisting of D. B. Reinhart, Donald P. Zietlow and John J. Hansen, Grantee,

Witnesseth, That the said Grantor, for a valuable consideration conveys to Grantee the following described real estate in Iowa County, State of Wisconsin:

RETURN TO Thomas J. Kieffer
1626 Oak Street
La Crosse, WI 54601

Tax Parcel No:

A part of Lots Number 7 and 8 of Strong's Alteration to the City of Mineral Point described as follows: Commencing 60 feet North and 716 feet East of the Southwest corner of Section 31, Township 5 North, Range 3 East, which is also the Southeast corner of Lot Number 8 as established. Running thence North 10 degrees East along the Westerly line of Ridge Street 110 feet, thence West 78 feet, thence South 10 degrees West 110 feet to the North line of Fair Street, thence East on the North line of Fair Street 78 feet to the point of beginning. All in Iowa County, Wisconsin.

This deed is in satisfaction of the Land Contract between Grantor and Grantee dated August 15, 1983, and recorded February 3, 1984, in Vol. 374 of Records, page 328 at the office of the Iowa County Register of Deeds as Document No. 155164.

TRANSFER
$ 105.00
FEE

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

Together with all and singular the hereditaments and appurtenances thereunto belonging;

And Grantor warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except municipal ordinances, recorded easements and restrictions and liens or encumbrances created by act or default of Grantee

and will warrant and defend the same.

Dated this 30th day of MARCH, 19 88

(SEAL) Stanley Herrling (SEAL)
* Stanley Herrling

(SEAL) Florence E. Herrling (SEAL)
* Florence E. Herrling

**AUTHENTICATION**

Signature(s)

authenticated this day of, 19

*

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Thomas J. Kieffer
1626 Oak Street
La Crosse, Wisconsin 54601

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

**ACKNOWLEDGMENT**

STATE OF WISCONSIN } ss.
DANE County.

Personally came before me this 30th day of MARCH, 19 88, the above named Stanley Herrling and Florence E. Herrling

to me known to be the person s who executed the foregoing instrument and acknowledge the same.

Sharon Powers
* SHARON L. POWERS

Notary Public DANE County, Wis.
My Commission is permanent. (If not, state expiration date: 3/10, 19 91)

*Names of persons signing in any capacity should be typed or printed below their signatures.

PIONEER
ENVIRONMENTAL, INC.

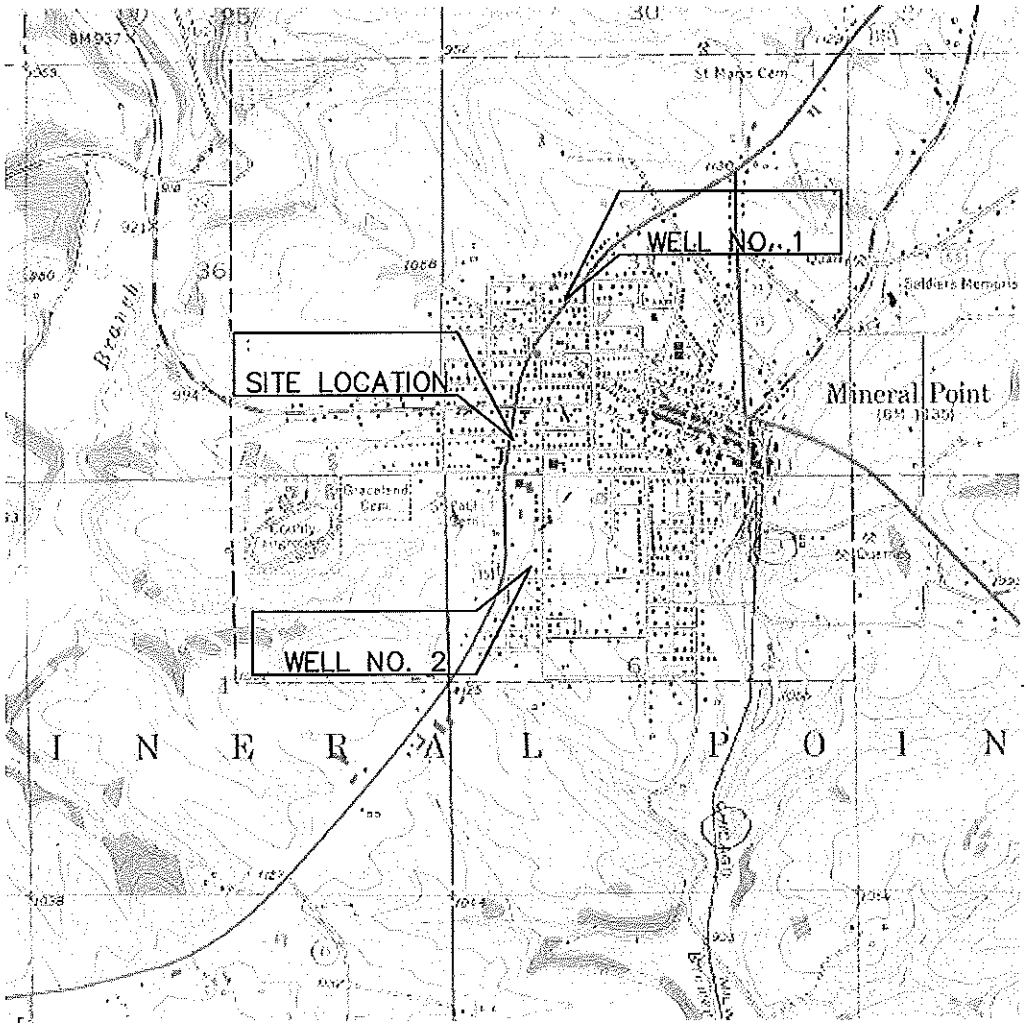
203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

## RP – LEGAL DESCRIPTION STATEMENT

I Troy Batzel , Environmental Manager of Kwik Trip Stores, (Current Property Owner) states that I believe the legal description for this GIS Registry Packet, for Kwik Trip Store # 768, 537 Ridge Street, Mineral Point, WI (BRRTS # 03-25-113363 & PECFA # 53565144035), is complete and accurate.

Signed: _____ Dated: 1/30/09

Troy Batzel
Environmental Manager
Kwik Trip, Inc.
(608)793-6283
tbatzel@kwiktrip.com



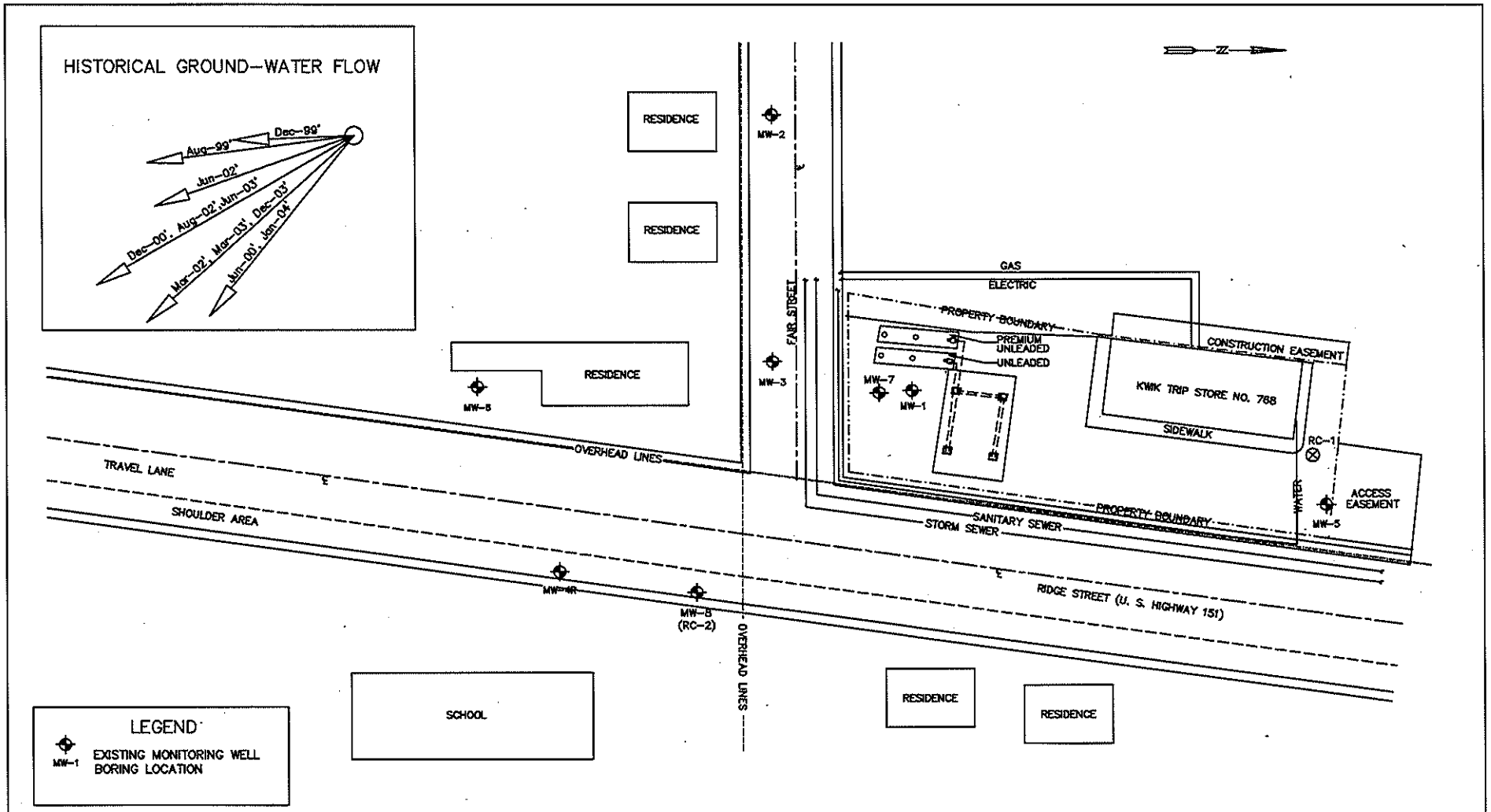

2000

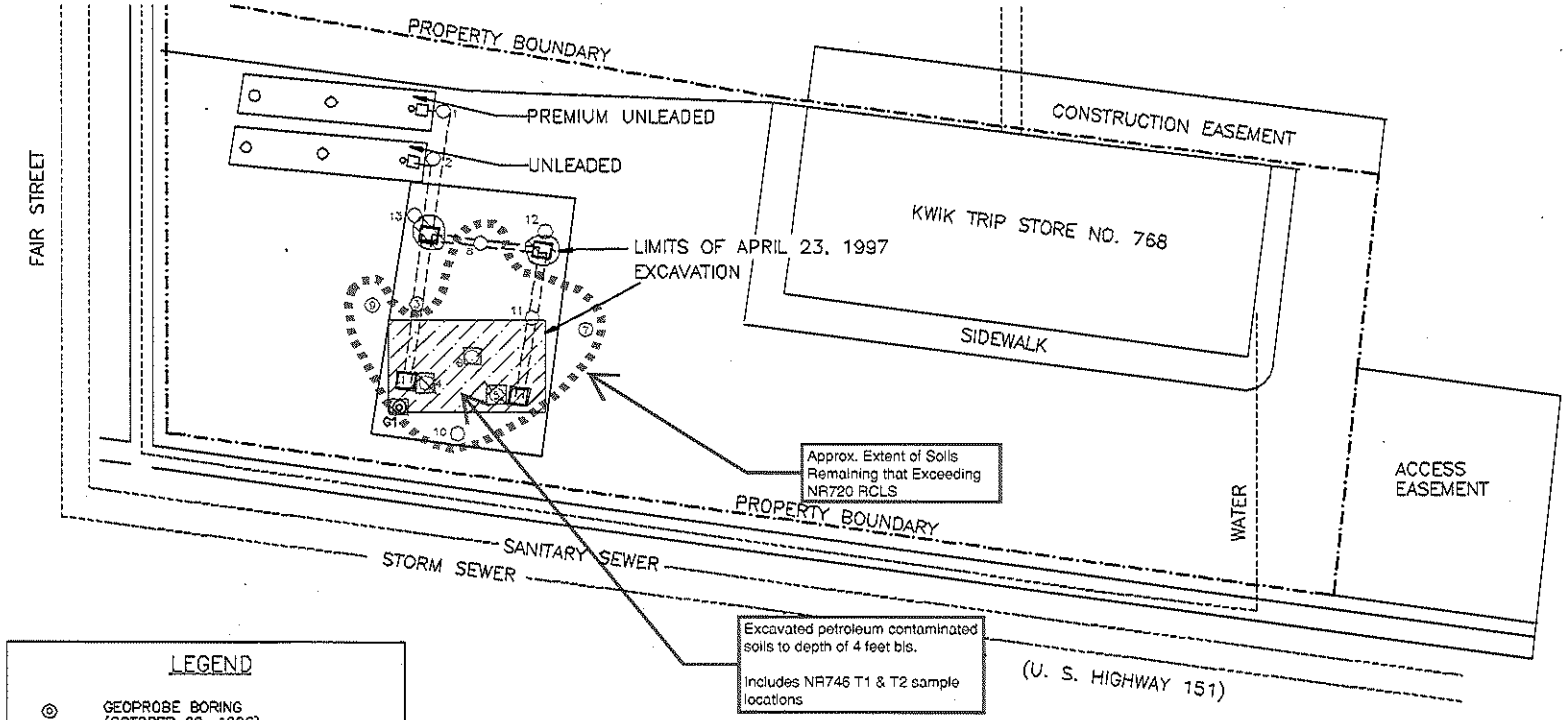
SCALE IN FEET

N

U.S.G.S. TOPOGRAPHIC
MINERAL POINT, WIS
7.5 MINUTE QUADRANGLE

| | | | |
|---|---|---|---|
| DATE: 03/25/04 | KWIK TRIP, INC.<br>STATION NO. 768<br>MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC.<br>MOUNT HOREB, WI | FIGURE: |
| REVISION: 0 | | | 1 |
| DISK: PROJECTS/KT/KT768/ | | | |
| FILE: SITELOC.DWG | AREA LOCATION | | |
| DRAWN: CHECKED: | | | |


HISTORICAL GROUND-WATER FLOW
Aug-99'
Dec-99'
Jun-02'
Dec-00', Aug-02', Jun-03'
Mar-02', Mar-03', Dec-03'
Jun-00', Jan-04'
RESIDENCE
RESIDENCE
RESIDENCE
MW-2
MW-3
MW-5
FAIR STREET
GAS
ELECTRIC
PROPERTY BOUNDARY
PREMIUM UNLEADED
UNLEADED
CONSTRUCTION EASEMENT
KWIK TRIP STORE NO. 788
SIDEWALK
MW-7
MW-1
RC-1
ACCESS EASEMENT
MW-5
WATER
OVERHEAD LINES
TRAVEL LANE
SHOULDER AREA
SANITARY SEWER
STORM SEWER
PROPERTY BOUNDARY
MW-4R
MW-8 (RC-2)
RIDGE STREET (U. S. HIGHWAY 151)
OVERHEAD LINES
SCHOOL
RESIDENCE
RESIDENCE
LEGEND
MW-1 EXISTING MONITORING WELL BORING LOCATION
*ALL BUILDING LOCATIONS ARE APPROXIMATE
0 40
SCALE IN FEET
DATE: 10/8/04
REVISION: 1
DISK: PROJECTS/KT/KT788
FILE: SITELAYOUT
DRAWN:
CHECKED:
KWIK TRIP, INC.
STATION NO. 788
MINERAL POINT, WISCONSIN
SITE LAYOUT MAP
PIONEER ENVIRONMENTAL INC
MOUNT HOREB, WI
FIGURE:
2




## LEGEND

- GEOPROBE BORING (OCTOBER 29, 1996)
- SOIL SAMPLING LOCATION (APRIL 23, 1997)
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 2 FEET BELOW GRADE
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 4 FEET BELOW GRADE

Soils above NR 746 T2 Values - Red Square

Soils Above NR 746 T1 Values - Red Slash

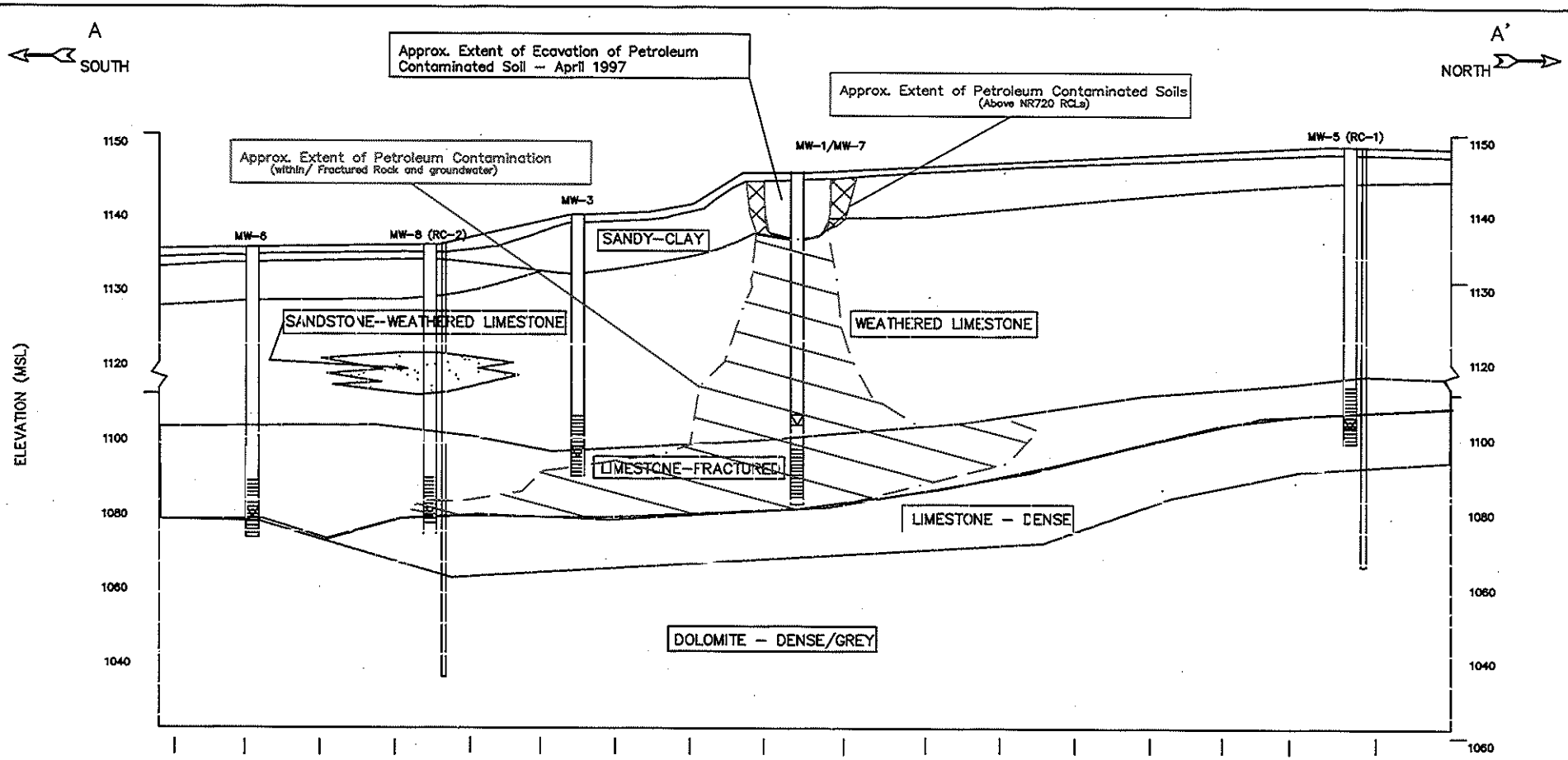
*ALL LOCATIONS ARE APPROXIMATE

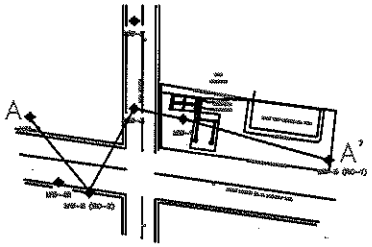
0 20
SCALE IN FEET

Modified by Pioneer Environmental Jan 26, 2009

| | | |
|---|---|---|
| DATE: 1/27/1999 | PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 6525 Grand Teton Plaza Madison, WI 53719 (608) 833-4000 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN |
| REVISION: 1 | | STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS |
| DISK: J:\10KWIK\KW768\\ | | |
| FILE: PREVINV.DWG | | |
| DRAWN: CHECKED: | | |

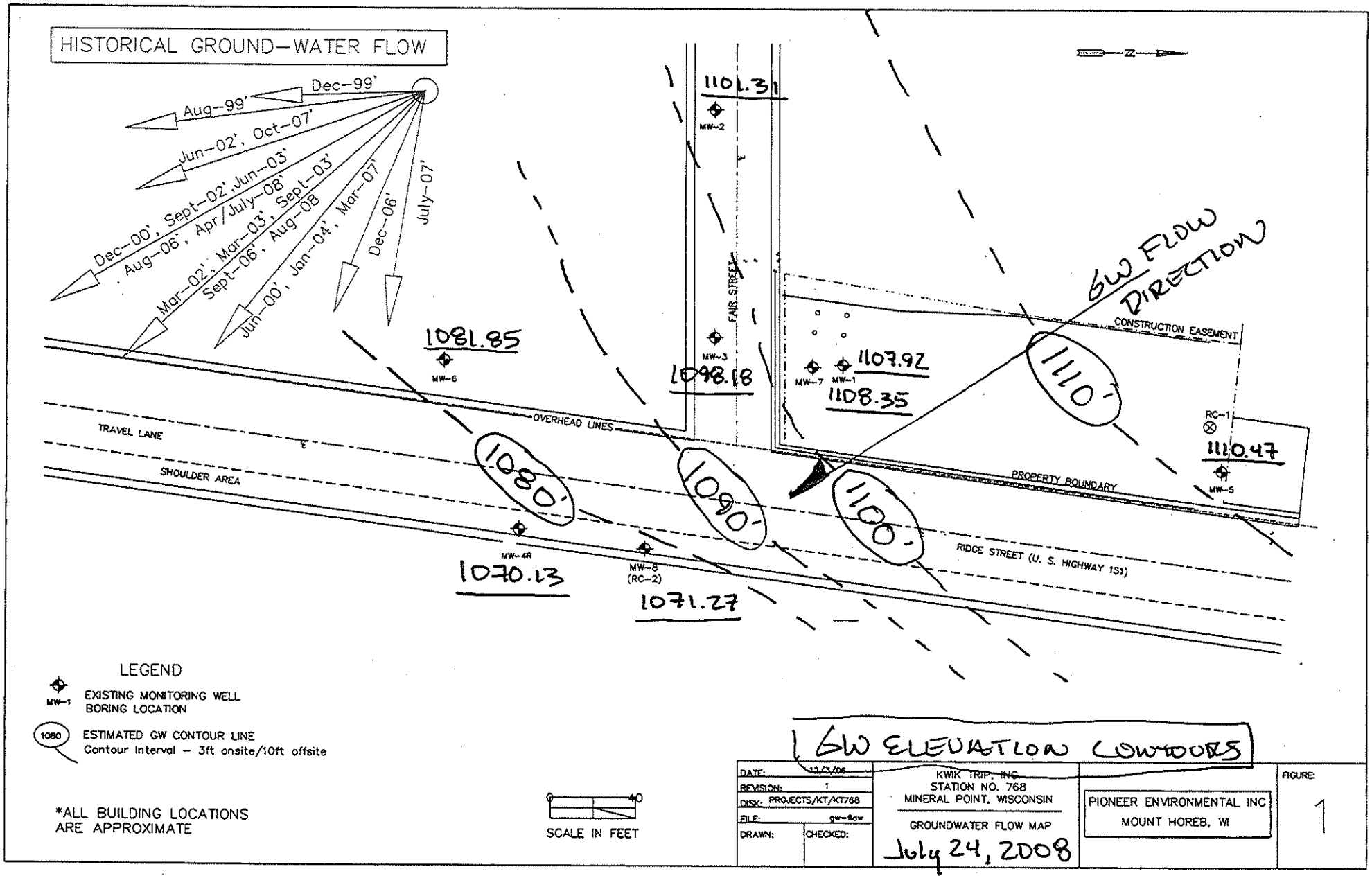
FIGURE: 3

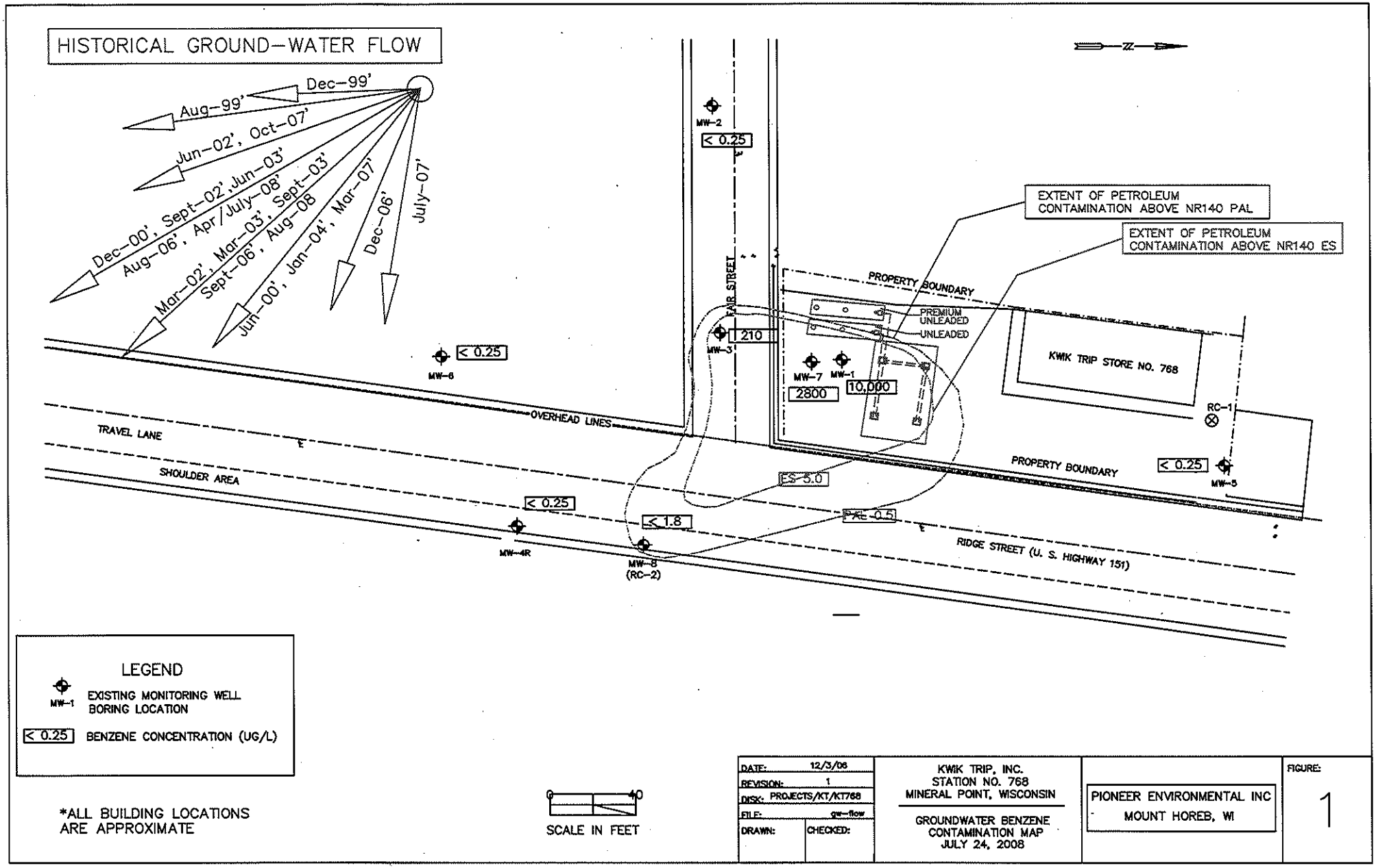



CROSS-SECTION TRANSECT

| | | | |
|---|---|---|---|
| DATE: 9/30/04 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC 203 1/2 EAST MAIN STREET MOUNT HOREB, WI | FIGURE: 4 |
| REVISION: 0 | | | |
| DISK: Projects\KT\KT768\ | GEOLOGIC CROSS SECTION A–A' | | |
| FILE: CSECTION.DWG | | | |
| DRAWN: CHECKED: | | | |


HISTORICAL GROUND-WATER FLOW
Dec-99'
Aug-99'
Jun-02', Oct-07'
Dec-00', Sept-02', Jun-03'
Aug-06', Apr/July-08'
Mar-02', Mar-03', Sept-03'
Sept-06', Aug-08
Jun-00', Jan-04', Mar-07'
Dec-06'
July-07'
N
1101.31
MW-2
FAIR STREET
MW-3
1098.18
1081.85
MW-6
MW-7
MW-1
1107.92
1108.35
GW FLOW DIRECTION
CONSTRUCTION EASEMENT
1110'
RC-1
1110.47
MW-5
OVERHEAD LINES
TRAVEL LANE
SHOULDER AREA
1080'
1090'
1100'
PROPERTY BOUNDARY
RIDGE STREET (U. S. HIGHWAY 151)
MW-4R
1070.13
MW-8
(RC-2)
1071.27
LEGEND
MW-1 EXISTING MONITORING WELL BORING LOCATION
1080 ESTIMATED GW CONTOUR LINE
Contour Interval - 3ft onsite/10ft offsite
*ALL BUILDING LOCATIONS ARE APPROXIMATE
0 40
SCALE IN FEET
GW ELEVATION CONTOURS
DATE: 12/3/06
REVISION: 1
DISK: PROJECTS/KT/KT768
FILE: gw-flow
DRAWN:
CHECKED:
KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN
GROUNDWATER FLOW MAP
July 24, 2008
PIONEER ENVIRONMENTAL INC
MOUNT HOREB, WI
FIGURE:
1




| | | | |
|---|---|---|---|
| DATE: 12/3/08 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC MOUNT HOREB, WI | FIGURE: 1 |
| REVISION: 1 | | | |
| DISK: PROJECTS/KT/KT768 | GROUNDWATER BENZENE CONTAMINATION MAP JULY 24, 2008 | | |
| FILE: gw-flow | | | |
| DRAWN: CHECKED: | | | |

**TABLE 1A**

**KWIK TRIP, INC.**
**STATION NO. 768**
**MINERAL POINT, WISCONSIN**

**SOIL QUALITY SUMMARY - REMAINING/CONFIRMATION SOIL SAMPLES**
(all results in milligrams per kilogram (mg/kg))

| Location | Sample Depth (ft bg) | Date | MTBE | Benzene | Toluene | Ethyl-benzene | Total Xylenes | 1,3,5-Trimethyl-benzene | 1,2,4-Trimethyl-benzene | GRO | Total Lead | *Soil Removed |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **NR720 - RCLs** | | | **-** | **0.0055** | **1.5** | **2.9** | **4.1** | **-** | **-** | **100** | **50** | |
| **NR746 - T1** | **All** | | | **8.5** | **38.0** | **4.6** | **42.0** | **83.0** | **11.0** | **-** | | |
| **NR746 - T2** | **0-4** | | | **1.1** | **-** | **-** | **-** | **-** | **-** | **-** | | |
| **1** | 2 | 4/23/1997 | < 0.026 | < 0.011 | < 0.026 | < 0.026 | < 0.077 | < 0.026 | < 0.026 | < 5.2 | < 4.1 | N |
| **2** | 2 | 4/23/1997 | < 0.026 | < 0.011 | < 0.026 | < 0.026 | < 0.080 | < 0.026 | < 0.026 | < 5.3 | < 4.2 | N |
| **7** | 2 | 4/23/1997 | < 0.030 | < 0.012 | < 0.030 | < 0.030 | < 0.090 | < 0.030 | < 0.030 | < 6.0 | **78** | N |
| **8** | 2 | 4/23/1997 | < 0.030 | < 0.012 | < 0.030 | < 0.030 | < 0.091 | < 0.030 | < 0.030 | < 6.1 | **52** | N |
| **12** | 2 | 4/23/1997 | < 0.026 | < 0.01 | 0.089 | 0.076 | 0.604 | 0.233 | 0.551 | 10 | 26 | N |
| **13** | 2 | 4/23/1997 | < 0.026 | < 0.01 | 0.168 | 0.116 | 1.05 | 0.379 | 0.896 | 18 | 8.0 | N |
| **MW-1** | 2-4 | 8/11/1998 | < 0.026 | < 0.026 | < 0.026 | 0.028 | 0.056** | 0.18 | 0.20 | 21 | 35.5 | - |
| **MW-1** | 9 | 8/11/1998 | < 0.025 | < 0.025 | < 0.025 | < 0.025 | < 0.050 | < 0.025 | < 0.025 | < 1.3 | 8.43 | - |
| **Field Blank** | - | 4/23/1997 | < 0.025 | < 0.01 | < 0.025 | < 0.025 | < 0.075 | < 0.025 | < 0.025 | < 5.0 | - | - |

**25.30** : Concentration exceeds NR 720 Residual Contaminant Level (BOLD)
<u>25.30</u> : Concentration exceeds NR 746 - Table 1 Values (UNDERLINED)
*25.30* : Concentration exceeds NR 746 - Table 2 Values (ITALICS)
* : Soil sample excavated and hauled to landfill
RCLs : Residual Contaminant Levels established in NR 720.09 and 720.11, Wisc. Admin. Code
ft bg : Feet below grade
< : Not present above laboratory method detection limit (MDL)

TABLE 3

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

GROUNDWATER QUALITY DATABASE
(all results are in micrograms per liter (µg/l))

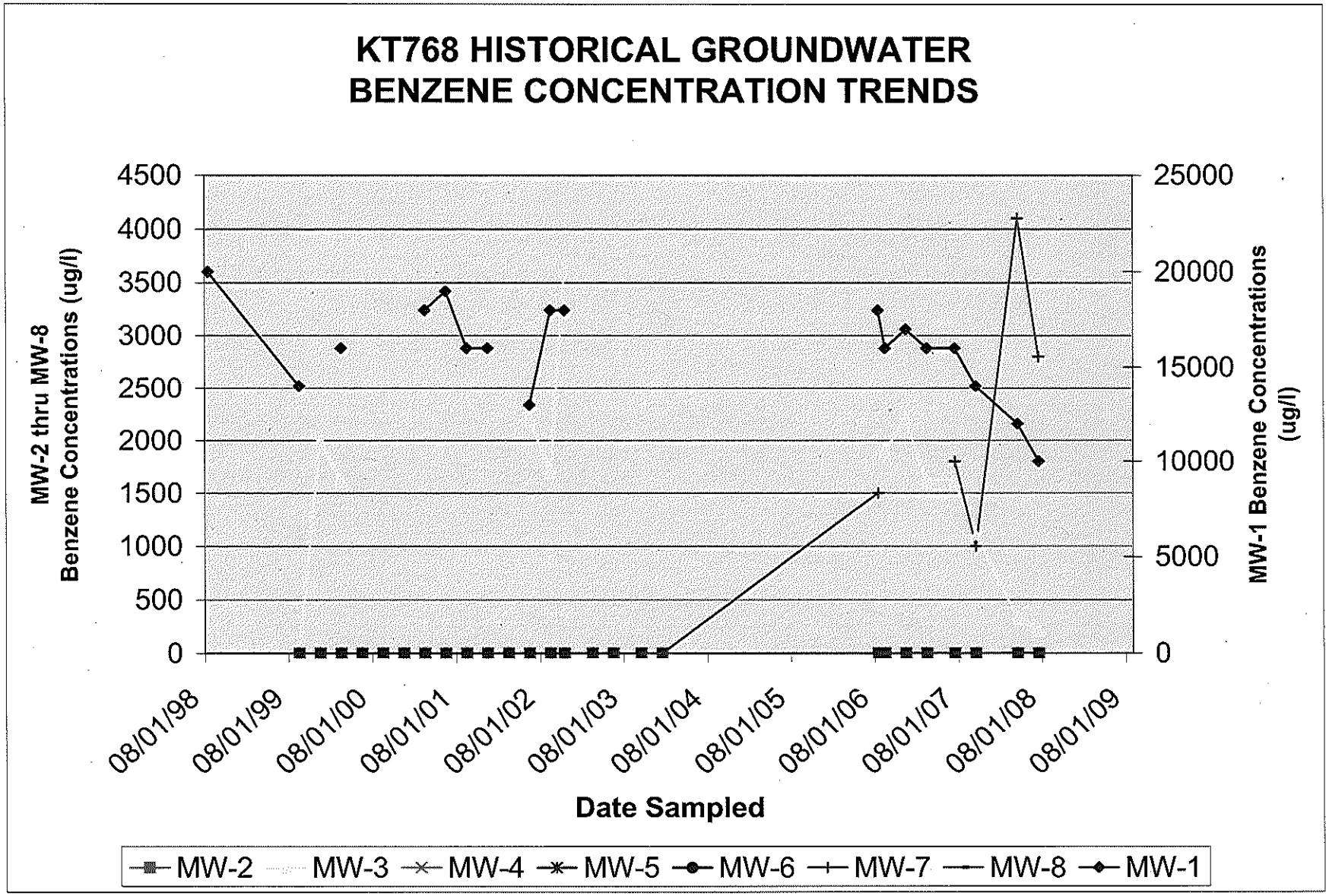
| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| Enforcement Standard | | 5 | 1,000 | 700 | 10,000 | 60 | 480 | - | 40 |
| Preventive Action Limit | | 0.5 | 200 | 140 | 1,000 | 12 | 96 | - | 8 |
| MW-1 | 8/12/1998 | 20,000 [1] | 3,400 | 900 | 1,400 | 1,400 | 700* | 28,000** | < 550 |
| MW-1 | 9/14/1999 | 14,000 | 6,400 | 2,200 | 8,100 | 840 | 4,030 | 57,000 | 820 |
| MW-1 | 12/9/1999 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 3/10/2000 | 16,000 | 1,400 | 1,700 | 4,100 | < 200 | 1,540 | 36,000 | - |
| MW-1 | 6/22/2000 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 9/20/2000 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 12/19/2000 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 3/19/2001 | 18,000 | 4,600 | 1,800 | 4,900 | 740 | 2,230 | 40,000 | - |
| MW-1 | 6/15/2001 | 19,000 | 7,500 | 2,200 | 5,600 | < 210 | 2,260 | 46,000 | - |
| MW-1 | 9/21/2001 | 16,000 | 8,300 | 2,200 | 5,650 | 2,000 | 2,430 | 49,000 | - |
| MW-1 | 12/18/2001 | 16,000 | 8,300 | 2,000 | 5,370 | 620 | 1,840 | 46,000 | - |
| MW-1 | 3/21/2002 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 6/4/2002 | 13,000 | 6,000 | 2,100 | 5,180 | 860 | 1,640 | 44,000 | - |
| MW-1 | 9/4/2002 | 18,000 | 9,500 | 2,000 | 5,600 | 420 | 1,890 | 50,000 | - |
| MW-1 | 11/27/2002 | 18,000 | 10,000 | 1,900 | 5,000 | 800 | 1,760 | 45,000 | - |
| MW-1 | 3/18/2003 | Not Sampled - Free Product | | | | | | | |
| MW-1 | 6/3/2003 | Not Sampled - See MW-7 Results | | | | | | | |
| MW-1 | 10/7/2003 | Not Sampled - See MW-7 Results | | | | | | | |
| MW-1 | 1/7/2004 | Not Sampled - See MW-7 Results | | | | | | | |
| MW-1 | 8/3/2006 | 18,000 | 12,000 | 1,600 | 4,600 | < 370 | 1,000 | NA | < 270 |
| MW-1 | 9/28/2006 | 16,000 | 12,000 | 1,600 | 4,800 | < 370 | 1,890 | NA | < 270 |
| MW-1 | 12/20/2006 | 17000 | 14000 | 2300 | 7700 | 530 | 2140 | NA | 1200 |
| MW-1 | 3/26/2007 | 16000 | 11000 | 2900 | 7700 | 470 | 3330 | NA | ND |
| MW-1 | 7/2/2007 | 16000 | 13000 | 1400 | 7500 | ND | 1700 | NA | 1500 |
| MW-1 | 10/1/2007 | 14000 | 14000 | 2400 | 7800 | 140 | 2330 | NA | 510 |
| MW-1 | 4/23/2008 | 12000 | 4000 | 1900 | 5600 | 130 | 2640 | NA | 550 |
| MW-1 | 7/24/2008 | 10000 | 12000 | 2600 | 8100 | ND | 2330 | NA | 560 |
| MW-2 | 9/14/1999 | < 0.10 | < 0.10 | < 0.25 | < 0.25 | < 0.25 | < 0.20 | < 50 | < 0.10 |
| MW-2 | 12/9/1999 | 0.37 | 0.21 | < 0.22 | 0.25 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 3/10/2000 | 0.29 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 6/22/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 9/20/2000 | 16 | 18 | 1.4 | 6.9 | < 0.16 | 0.40 | 55 | - |
| MW-2 | 12/19/2000 | 16 | 0.42 | 0.75 | 2.2 | < 0.16 | 0.38 | < 50 | - |
| MW-2 | 3/19/2001 | 8.1 | < 0.20 | < 0.22 | 0.28 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 6/15/2001 | 0.64 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 9/21/2001 | 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-2 | 12/18/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-2 | 3/21/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-2 | 6/4/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-2 | 9/4/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 11/27/2004 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-2 | 3/18/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.44 | < 50 | - |
| MW-2 | 6/3/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.44 | < 50 | - |
| MW-2 | 10/7/2003 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-2 | 1/7/2004 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-2 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |

| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | **5** | **1,000** | **700** | **10,000** | **60** | **480** | **-** | **40** |
| **Preventive Action Limit** | | **0.5** | **200** | **140** | **1,000** | **12** | **96** | **-** | **8** |
| MW-2 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-2 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 3/26/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 7/2/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 10/1/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-2 | 4/23/2008 | ND | 0.11 | ND | ND | ND | ND | NA | ND |
| MW-2 | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-3 | 9/14/1999 | **1,400** | **1,000** | **1,800** | 4,400 | < 10 | **3,080** | 24,000 | **500** |
| MW-3 | 12/9/1999 | **2,000** | **1,300** | **1,700** | 4,300 | < 8.0 | **2,570** | 27,000 | - |
| MW-3 | 3/10/2000 | **1,600** | **1,100** | **1,500** | 3,800 | < 16 | **1,920** | 20,000 | - |
| MW-3 | 6/22/2000 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 9/20/2000 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 12/19/2000 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 3/19/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 6/15/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 9/21/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 12/18/2001 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 3/21/2002 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 6/4/2002 | **2,200** | **1,900** | **2,000** | 5,490 | < 40 | **4,900** | 35,000 | - |
| MW-3 | 9/4/2002 | **1,700** | **2,200** | **1,700** | 4,900 | < 7.6 | **4,800** | 31,000 | - |
| MW-3 | 11/27/2002 | **3,600** | **4,500** | **5,000** | **14,000** | < 130 | **30,000** | 320,000 | - |
| MW-3 | 3/18/2003 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 6/3/2003 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 10/7/2003 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 1/7/2004 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 8/3/2006 | | **Not Sampled - Free Product** | | | | | | |
| MW-3 | 9/28/2006 | **1,900** | **2,400** | **2,200** | 7,800 | **< 370** | **4,070** | NA | **< 270** |
| MW-3 | 12/20/2006 | **2200** | **3500** | **2400** | 8200 | ND | **3200** | NA | **700** |
| MW-3 | 3/26/2007 | **1600** | **2900** | **1900** | 6600 | ND | **2600** | NA | **710** |
| MW-3 | 7/2/2007 | **1600** | **1500** | **1600** | 7700 | ND | **2700** | NA | **1200** |
| MW-3 | 10/1/2007 | **1100** | **2900** | **3400** | **13000** | ND | **37500** | NA | **8500** |
| MW-3 | 4/23/2008 | **320** | 430 | **1700** | 5000 | ND | **4900** | NA | **790** |
| MW-3 | 7/24/2008 | **210** | 250 | **2000** | 4700 | ND | **10100** | NA | **1100** |
| MW-4R | 9/14/1999[2] | - | - | - | - | - | - | - | - |
| MW-4R | 12/9/1999[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/22/2000 | < 0.13 | < 0.20 | 0.31 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-4R | 9/20/2000[2] | - | - | - | - | - | - | - | - |
| MW-4R | 12/19/2000[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/19/2001[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/15/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-4R | 9/21/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-4R | 12/18/2001[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/21/2002[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/4/2002[2] | - | - | - | - | - | - | - | - |
| MW-4R | 9/4/2002[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/18/2003[2] | - | - | - | - | - | - | - | - |
| MW-4R | 6/03/2003[2] | - | - | - | - | - | - | - | - |
| MW-4R | 10/07/2003[2] | - | - | - | - | - | - | - | - |
| MW-4R | 1/7/2004[2] | - | - | - | - | - | - | - | - |
| MW-4R | 8/3/2006[2] | - | - | - | - | - | - | - | - |
| MW-4R | 9/28/2006[2] | - | - | - | - | - | - | - | - |
| MW-4R | 12/20/2006[2] | - | - | - | - | - | - | - | - |
| MW-4R | 3/26/2007[2] | - | - | - | - | - | - | - | - |
| MW-4R | 7/2/2007[2] | - | - | - | - | - | - | - | - |
| MW-4R | 10/1/2007 | ND | 0.17 | ND | ND | ND | ND | NA | ND |
| MW-4R | 4/23/2008 | ND | 0.22 | ND | ND | ND | ND | NA | ND |

| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | **5** | **1,000** | **700** | **10,000** | **60** | **480** | **-** | **40** |
| **Preventive Action Limit** | | **0.5** | **200** | **140** | **1,000** | **12** | **96** | **-** | **8** |
| MW-4R | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 9/14/1999 | < 0.10 | < 0.10 | < 0.25 | < 0.25 | < 0.25 | < 0.20 | < 50 | < 0.10 |
| MW-5 | 12/9/1999 | **1.7** | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 3/10/2000 | **2.6** | < 0.20 | < 0.22 | 0.34 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 6/22/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 9/20/2000 | **3.4** | < 0.20 | < 0.22 | 0.59 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 12/19/2000 | **5.6** | 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 3/19/2001 | **49** | 0.23 | < 0.22 | < 0.23 | 1.7 | < 0.51 | 78 | - |
| MW-5 | 6/15/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 9/21/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-5 | 12/18/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-5 | 3/21/2002 | **58** | < 0.40 | < 0.40 | < 1.4 | 2.3 | < 0.90 | 100 | - |
| MW-5 | 6/4/2002 | **8.6** | < 0.40 | < 0.40 | < 1.4 | 1.3 | < 0.90 | < 16 | - |
| MW-5 | 9/4/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-5 | 11/27/2002 | **3.1** | < 0.20 | < 0.22 | < 0.23 | 1.00 | < 0.51 | < 50 | - |
| MW-5 | 3/18/2003 | **49** | 0.13 | < 0.22 | < 0.39 | 3.7 | < 0.43 | < 50 | - |
| MW-5 | 6/3/2003 | **3** | <0.11 | < 0.22 | < 0.39 | 2.8 | < 0.43 | < 50 | - |
| MW-5 | 10/7/2003 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | 0.94 | < 0.71 | < 50 | - |
| MW-5 | 1/7/2004 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.30 | < 0.71 | < 50 | - |
| MW-5 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-5 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-5 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 3/26/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 7/2/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 10/1/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 4/23/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-5 | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 9/14/1999 | < 0.10 | 0.18 | < 0.25 | < 0.25 | < 0.25 | < 0.20 | < 50 | < 0.10 |
| MW-6 | 12/9/1999 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 3/10/2000 | 0.19 | 0.37 | < 0.22 | 0.48 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 6/22/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 9/20/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 12/19/2000 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 3/19/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 6/15/2001 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 9/21/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.1 | < 0.40 | < 0.80 | < 14 | - |
| MW-6 | 12/18/2001 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-6 | 3/21/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-6 | 6/4/2002 | < 0.40 | < 0.40 | < 0.40 | < 1.4 | < 0.40 | < 0.90 | < 16 | - |
| MW-6 | 9/4/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 11/27/2002 | < 0.13 | < 0.20 | < 0.22 | < 0.23 | < 0.16 | < 0.51 | < 50 | - |
| MW-6 | 3/18/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.43 | < 50 | - |
| MW-6 | 6/3/2003 | < 0.25 | < 0.11 | < 0.22 | < 0.39 | < 0.23 | < 0.43 | < 50 | - |
| MW-6 | 10/7/2003 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-6 | 1/7/2004 | < 0.31 | < 0.3 | < 0.5 | < 0.92 | < 0.3 | < 0.71 | < 50 | - |
| MW-6 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-6 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-6 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 3/26/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 7/2/2007 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-6 | 10/1/2007 | ND | 0.14 | ND | ND | ND | ND | NA | ND |
| MW-6 | 4/23/2008 | ND | 0.15 | ND | ND | ND | ND | NA | ND |
| MW-6 | 7/24/2008 | ND | ND | ND | ND | ND | ND | NA | ND |
| MW-7 | 6/3/2003 | NS | NS | NS | NS | NS | NS | NS | - |
| MW-7 | 10/7/2003 | NS | NS | NS | NS | NS | NS | NS | - |

| Sample Location | Date Sampled | Benzene | Toluene | Ethyl-benzene | Total Xylenes | tert-Butylmethyl ether | 1,3,5 and 1,2,4-Trimethyl-benzenes | GRO | Naphthalene |
|---|---|---|---|---|---|---|---|---|---|
| **Enforcement Standard** | | **5** | **1,000** | **700** | **10,000** | **60** | **480** | **-** | **40** |
| **Preventive Action Limit** | | **0.5** | **200** | **140** | **1,000** | **12** | **96** | **-** | **8** |
| MW-7 | 1/7/2004 | **3790** | 155.00 | **324.00** | **1112.6** | < 6.0 | **735** | 11300 | - |
| MW-7 | 8/3/2006 | **1,500** | 90 | **410** | 760 | < 74 | **1,170** | NA | < 54 |
| MW-7 | 9/28/2006 | | **Not Sampled - Poor recovery, sediment rich,poor sample** | | | | | | - |
| MW-7 | 12/20/2006 | | **Not Sampled - Poor recovery, sediment rich,poor sample** | | | | | | - |
| MW-7 | 3/26/2007 | | **Not Sampled - Poor recovery, sediment rich,poor sample** | | | | | | - |
| MW-7 | 7/2/2007 | **1800** | 49 | **210** | 390 | ND | **720** | NA | ND |
| MW-7 | 10/1/2007 | **1000** | 110 | 120 | 230 | ND | **340** | NA | **10** |
| MW-7 | 4/23/2008 | **4100** | **840** | **410** | 780 | ND | **680** | NA | **30** |
| MW-7 | 7/24/2008 | **2800** | **420** | **150** | 390 | ND | **302** | NA | **44** |
| MW-8 | 6/3/2003 | **0.89** | 0.49 | < 0.50 | < 0.50 | 0.62 | < 0.50 | 78 | - |
| MW-8 | 10/7/2003 | **2.06** | 4.33 | 1.31 | 1.37 | 5.76 | 0.593 | 412 | - |
| MW-8 | 1/7/2004 | **1.37** | 4.95 | 1.46 | 5.78 | < 0.3 | < 0.71 | 424 | - |
| MW-8 | 8/3/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-8 | 9/28/2006 | < 0.76 | < 0.64 | < 0.74 | < 1.9 | < 0.74 | < 0.75 | NA | < 0.54 |
| MW-8 | 12/20/2006 | ND | ND | ND | ND | ND | ND | NA | **11** |
| MW-8 | 3/26/2007 | **1.9** | 2.2 | 3.6 | 2.5 | 1.5 | ND | NA | ND |
| MW-8 | 7/2/2007 | ND | 1.7 | ND | 2.1 | ND | ND | NA | 1.2 |
| MW-8 | 10/1/2007 | ND | 0.72 | ND | 0.62 | ND | 1.83 | NA | 0.97 |
| MW-8 | 5/6/2008 | **1.6** | 0.81 | ND | 1.1 | ND | 1.6 | NA | 0.97 |
| MW-8 | 7/24/2008 | **1.8** | 0.58 | 0.39 | ND | ND | 0.92 | NA | 0.72 |

GRO : Gasoline Range Organics
- : Not analyzed
< : Less than the laboratory method detection limit (MDL)
* : Reported concentration below the Quantitation Limit
** : Sample contained lighter hydrocarbon fractions
1 : Raised Quantitation Limit due to dilution for background interference Results reported from higher dilution
2 : Well was dry
**0.45** : Concentration exceeds NR140 Preventative action limits (Bold)
45 : Concentration exceeds NR140 Enforcement Standards (Underlined)




GW-dbase
1/22/09

PIONEER ENVIRONMENTAL INC

**TABLE 1**

**KWIK TRIP, INC.**
**STATION NO. 768**
**MINERAL POINT, WISCONSIN**

**FLUID-LEVEL MEASUREMENTS**
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-1 | 8/18/1999 | 41.66 | - | 1145.22 | 1095.22 | 1080.22 | **1103.56** | - | - |
| MW-1 | 8/20/1999 | 41.78 | - | 1145.22 | 1095.22 | 1080.22 | **1103.44** | - | - |
| MW-1 | 9/14/1999 | 42.42 | - | 1145.22 | 1095.22 | 1080.22 | **1102.80** | - | - |
| MW-1 | 12/9/1999 | 44.46 | 44.41 | 1145.22 | 1095.22 | 1080.22 | **1100.76** | 0.05 | **1100.80** |
| MW-1 | 12/29/1999 | 44.48 | - | 1145.22 | 1095.22 | 1080.22 | **1100.74** | - | - |
| MW-1 | 1/24/2000 | 44.89 | - | 1145.22 | 1095.22 | 1080.22 | **1100.33** | - | - |
| MW-1 | 2/23/2000 | 45.59 | - | 1145.22 | 1095.22 | 1080.22 | **1099.63** | - | - |
| MW-1 | 3/10/2000 | 45.90 | - | 1145.22 | 1095.22 | 1080.22 | **1099.32** | - | - |
| MW-1 | 6/22/2000 | 45.91 | 44.87 | 1145.22 | 1095.22 | 1080.22 | **1099.31** | 1.04 | **1100.10** |
| MW-1 | 9/20/2000 | 40.31 | 40.29 | 1145.22 | 1095.22 | 1080.22 | **1104.91** | 0.02 | **1104.93** |
| MW-1 | 12/19/2000 | 43.44 | -* | 1145.22 | 1095.22 | 1080.22 | **1101.78** | - | - |
| MW-1 | 1/11/2001 | 45.15 | 44.55 | 1145.22 | 1095.22 | 1080.22 | **1100.07** | 0.60 | **1100.53** |
| MW-1 | 2/22/2001 | 44.47 | 44.46 | 1145.22 | 1095.22 | 1080.22 | **1100.75** | 0.01 | **1100.76** |
| MW-1 | 8/29/2001 | 41.26 | - | 1145.22 | 1095.22 | 1080.22 | **1103.96** | - | - |
| MW-1 | 9/21/2001 | 41.40 | - | 1145.22 | 1095.22 | 1080.22 | **1103.82** | - | - |
| MW-1 | 11/29/2001 | 43.51 | 43.50 | 1145.22 | 1095.22 | 1080.22 | **1101.71** | 0.01 | **1101.72** |
| MW-1 | 12/18/2001 | 42.02 | - | 1145.22 | 1095.22 | 1080.22 | **1103.20** | - | - |
| MW-1 | 1/30/2002 | 43.07 | 42.68 | 1145.22 | 1095.22 | 1080.22 | **1102.15** | 0.39 | **1102.45** |
| MW-1 | 2/21/2002 | 43.49 | - | 1145.22 | 1095.22 | 1080.22 | **1101.73** | - | - |
| MW-1 | 3/21/2002 | 43.64 | 43.63 | 1145.22 | 1095.22 | 1080.22 | **1101.58** | 0.01 | **1101.59** |
| MW-1 | 4/30/2002 | 43.81 | - | 1145.22 | 1095.22 | 1080.22 | **1101.41** | - | - |
| MW-1 | 6/4/2002 | 42.85 | - | 1145.22 | 1095.22 | 1080.22 | **1102.37** | - | - |
| MW-1 | 7/22/2002 | 41.96 | 41.90 | 1145.22 | 1095.22 | 1080.22 | **1103.26** | 0.06 | **1103.31** |
| MW-1 | 9/4/2002 | 42.09 | - | 1145.22 | 1095.22 | 1080.22 | **1103.13** | - | - |
| MW-1 | 3/18/2003 | 44.23 | 44.20 | 1145.22 | 1095.22 | 1080.22 | **1100.99** | 0.03 | **1101.01** |
| MW-1 | 4/21/2003 | 44.55 | - | 1145.22 | 1095.22 | 1080.22 | **1100.67** | - | - |
| MW-1 | 6/3/2003 | 44.38 | - | 1145.22 | 1095.22 | 1080.22 | **1100.84** | - | - |
| MW-1 | 7/23/2003 | 44.03 | - | 1145.22 | 1095.22 | 1080.22 | **1101.19** | - | - |
| MW-1 | 10/7/2003 | 43.40 | - | 1145.22 | 1095.22 | 1080.22 | **1101.82** | - | - |
| MW-1 | 10/31/2003 | 45.06 | - | 1145.22 | 1095.22 | 1080.22 | **1100.16** | - | - |
| MW-1 | 1/7/2004 | 42.32 | - | 1145.22 | 1095.22 | 1080.22 | **1102.90** | - | - |
| MW-1 | 7/20/2004 | 40.46 | - | 1145.22 | 1095.22 | 1080.22 | **1104.76** | - | - |
| MW-1 | 8/3/2006 | 43.62 | - | 1145.22 | 1095.22 | 1080.22 | **1101.60** | - | - |
| MW-1 | 9/28/2006 | 42.72 | - | 1145.22 | 1095.22 | 1080.22 | **1102.50** | - | - |
| MW-1 | 12/20/2006 | 43.85 | - | 1145.22 | 1095.22 | 1080.22 | **1101.37** | - | - |
| MW-1 | 3/26/2007 | 45.03 | - | 1145.22 | 1095.22 | 1080.22 | **1100.19** | - | - |
| MW-1 | 7/2/2007 | 41.65 | 41.64 | 1145.22 | 1095.22 | 1080.22 | **1103.57** | - | - |
| MW-1 | 10/1/2007 | 37.83 | 37.82 | 1145.22 | 1095.22 | 1080.22 | **1107.39** | - | - |
| MW-1 | 4/23/2008 | 36.78 | - | 1145.22 | 1095.22 | 1080.22 | **1108.44** | - | - |
| MW-1 | 7/24/2008 | 37.30 | - | 1145.22 | 1095.22 | 1080.22 | **1107.92** | - | - |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-2 | 6/3/2003 | 41.75 | - | 1136.10 | 1101.10 | 1086.10 | **1094.35** | - | - |
| MW-2 | 7/23/2003 | 41.05 | - | 1136.10 | 1101.10 | 1086.10 | **1095.05** | - | - |
| MW-2 | 10/7/2003 | 40.88 | - | 1136.10 | 1101.10 | 1086.10 | **1095.22** | - | - |
| MW-2 | 1/7/2004 | 39.32 | - | 1136.10 | 1101.10 | 1086.10 | **1096.78** | - | - |
| MW-2 | 7/20/2004 | 36.10 | - | 1136.10 | 1101.10 | 1086.10 | **1100.00** | - | - |
| MW-2 | 8/3/2006 | 38.27 | - | 1136.10 | 1101.10 | 1086.10 | **1097.83** | - | - |
| MW-2 | 9/28/2006 | 38.26 | - | 1136.10 | 1101.10 | 1086.10 | **1097.84** | - | - |
| MW-2 | 12/20/2006 | 39.37 | - | 1136.10 | 1101.10 | 1086.10 | **1096.73** | - | - |
| MW-2 | 3/26/2007 | 40.19 | - | 1136.10 | 1101.10 | 1086.10 | **1095.91** | - | - |
| MW-2 | 7/2/2007 | 37.28 | - | 1136.10 | 1101.10 | 1086.10 | **1098.82** | - | - |
| MW-2 | 10/1/2007 | 34.75 | - | 1136.10 | 1101.10 | 1086.10 | **1101.35** | - | - |
| MW-2 | 4/23/2008 | 33.38 | - | 1136.10 | 1101.10 | 1086.10 | **1102.72** | - | - |
| MW-2 | 7/24/2008 | 34.79 | - | 1136.10 | 1101.10 | 1086.10 | **1101.31** | - | - |
| MW-3 | 8/18/1999 | 43.20 | - | 1139.15 | 1104.15 | 1089.15 | **1095.95** | - | - |
| MW-3 | 8/20/1999 | 43.35 | - | 1139.15 | 1104.15 | 1089.15 | **1095.80** | - | - |
| MW-3 | 9/14/1999 | 44.01 | - | 1139.15 | 1104.15 | 1089.15 | **1095.14** | - | - |
| MW-3 | 12/9/1999 | 46.33 | - | 1139.15 | 1104.15 | 1089.15 | **1092.82** | - | - |
| MW-3 | 3/10/2000 | 47.95 | - | 1139.15 | 1104.15 | 1089.15 | **1091.20** | - | - |
| MW-3 | 6/22/2000 | 46.63 | 44.87 | 1139.15 | 1104.15 | 1089.15 | **1092.52** | 1.76 | **1093.86** |
| MW-3 | 9/20/2000 | 44.54 | 44.23 | 1139.15 | 1104.15 | 1089.15 | **1094.61** | 0.31 | **1094.85** |
| MW-3 | 12/19/2000 | 46.56 | 46.25 | 1139.15 | 1104.15 | 1089.15 | **1092.59** | 0.31 | **1092.83** |
| MW-3 | 1/11/2001 | 46.96 | 46.83 | 1139.15 | 1104.15 | 1089.15 | **1092.19** | 0.13 | **1092.29** |
| MW-3 | 2/22/2001 | 47.65 | 47.48 | 1139.15 | 1104.15 | 1089.15 | **1091.50** | 0.17 | **1091.63** |
| MW-3 | 8/29/2001 | 44.17 | 43.99 | 1139.15 | 1104.15 | 1089.15 | **1094.98** | 0.18 | **1095.12** |
| MW-3 | 10/16/2001 | 44.10 | 44.05 | 1139.15 | 1104.15 | 1089.15 | **1095.05** | 0.05 | **1095.09** |
| MW-3 | 11/29/2001 | 44.61 | 44.44 | 1139.15 | 1104.15 | 1089.15 | **1094.54** | 0.17 | **1094.67** |
| MW-3 | 12/18/2001 | 44.85 | 44.70 | 1139.15 | 1104.15 | 1089.15 | **1094.30** | 0.15 | **1094.41** |
| MW-3 | 1/30/2002 | 45.65 | 45.48 | 1139.15 | 1104.15 | 1089.15 | **1093.50** | 0.17 | **1093.63** |
| MW-3 | 2/21/2002 | 46.15 | 46.13 | 1139.15 | 1104.15 | 1089.15 | **1093.00** | 0.02 | **1093.02** |
| MW-3 | 3/21/2002 | 46.73 | 46.60 | 1139.15 | 1104.15 | 1089.15 | **1092.42** | 0.13 | **1092.52** |
| MW-3 | 4/30/2002 | 46.31 | - | 1139.15 | 1104.15 | 1089.15 | **1092.84** | - | - |
| MW-3 | 6/4/2002 | 45.28 | - | 1139.15 | 1104.15 | 1089.15 | **1093.87** | - | - |
| MW-3 | 7/12/2002 | 43.96 | - | 1139.15 | 1104.15 | 1089.15 | **1095.19** | - | - |
| MW-3 | 9/4/2002 | 44.93 | - | 1139.15 | 1104.15 | 1089.15 | **1094.22** | - | - |
| MW-3 | 3/18/2003 | 47.88 | 47.66 | 1139.15 | 1104.15 | 1089.15 | **1091.27** | 0.22 | **1091.44** |
| MW-3 | 4/21/2003 | 48.22 | 48.00 | 1139.15 | 1104.15 | 1089.15 | **1090.93** | 0.22 | **1091.10** |
| MW-3 | 6/3/2003 | 49.53 | 47.82 | 1139.15 | 1104.15 | 1089.15 | **1089.62** | 1.71 | **1090.92** |
| MW-3 | 7/23/2003 | 48.82 | 47.54 | 1139.15 | 1104.15 | 1089.15 | **1090.33** | 1.28 | **1091.30** |
| MW-3 | 10/7/2003 | 48.53 | 47.53 | 1139.15 | 1104.15 | 1089.15 | **1090.62** | 1.00 | **1091.38** |
| MW-3 | 10/31/2003 | 45.44 | - | 1139.15 | 1104.15 | 1089.15 | **1093.71** | - | - |
| MW-3 | 1/7/2004 | 46.75 | 45.92 | 1139.15 | 1104.15 | 1089.15 | **1092.40** | 0.83 | **1093.03** |
| MW-3 | 7/20/2004 | 43.10 | 42.92 | 1139.15 | 1104.15 | 1089.15 | **1096.05** | 0.18 | **1096.19** |
| MW-3 | 8/3/2006 | 47.10 | 45.28 | 1139.15 | 1104.15 | 1089.15 | **1092.05** | 1.82 | **1093.43** |
| MW-3 | 9/28/2006 | 45.26 | 45.24 | 1139.15 | 1104.15 | 1089.15 | **1093.89** | 0.02 | **1093.91** |
| MW-3 | 12/20/2006 | 46.33 | 46.33 | 1139.15 | 1104.15 | 1089.15 | **1092.82** | 0.00 | **1092.82** |
| MW-3 | 3/26/2007 | 47.32 | 47.31 | 1139.15 | 1104.15 | 1089.15 | **1091.83** | 0.01 | **1091.84** |
| MW-3 | 7/2/2007 | 44.58 | 44.05 | 1139.15 | 1104.15 | 1089.15 | **1094.57** | 0.53 | **1094.97** |
| MW-3 | 10/1/2007 | 41.76 | 41.35 | 1139.15 | 1104.15 | 1089.15 | **1097.39** | 0.41 | **1097.70** |
| MW-3 | 4/23/2008 | 40.45 | 40.20 | 1139.15 | 1104.15 | 1089.15 | **1098.70** | 0.25 | **1098.89** |
| MW-3 | 7/24/2008 | 41.15 | 40.91 | 1139.15 | 1104.15 | 1089.15 | **1098.00** | 0.24 | **1098.18** |
| MW-4 | 8/18/1999 | dry | - | 1138.00 | 1103.00 | 1088.00 | - | - | - |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-4R | 8/20/1999 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 9/14/1999 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 12/9/1999 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/10/2000 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 6/22/2000 | 67.45 | - | 1138.24 | 1073.24 | 1068.24 | **1070.79** | - | - |
| MW-4R | 9/20/2000 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 12/19/2000 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 10/16/2001 | 69.13 | - | 1138.24 | 1073.24 | 1068.24 | **1069.11** | - | - |
| MW-4R | 12/18/2001 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/21/2002 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 6/4/2002 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 9/4/2002 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/18/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 6/3/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 7/23/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 10/7/2003 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 1/7/2004 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 7/20/2004 | 68.44 | - | 1138.24 | 1073.24 | 1068.24 | **1069.80** | - | - |
| MW-4R | 8/3/2006 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 9/28/2006 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 12/20/2006 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 3/26/2007 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 7/2/2007 | dry | - | 1138.24 | 1073.24 | 1068.24 | - | - | - |
| MW-4R | 10/1/2008 | 68.04 | - | 1138.24 | 1073.24 | 1068.24 | **1070.20** | - | - |
| MW-4R | 4/23/2008 | 66.57 | - | 1138.24 | 1073.24 | 1068.24 | **1071.67** | - | - |
| MW-4R | 7/24/2008 | 68.11 | - | 1138.24 | 1073.24 | 1068.24 | **1070.13** | - | - |
| MW-5 | 8/20/1999 | 42.37 | - | 1148.91 | 1111.91 | 1096.91 | **1106.54** | - | - |
| MW-5 | 9/14/1999 | 44.27 | - | 1148.91 | 1111.91 | 1096.91 | **1104.64** | - | - |
| MW-5 | 12/9/1999 | 47.99 | - | 1148.91 | 1111.91 | 1096.91 | **1100.92** | - | - |
| MW-5 | 12/9/1999 | 47.99 | - | 1148.91 | 1111.91 | 1096.91 | **1100.92** | - | - |
| MW-5 | 3/10/2000 | 50.55 | - | 1148.91 | 1111.91 | 1096.91 | **1098.36** | - | - |
| MW-5 | 6/22/2000 | 45.24 | - | 1148.91 | 1111.91 | 1096.91 | **1103.67** | - | - |
| MW-5 | 9/20/2000 | 43.62 | - | 1148.91 | 1111.91 | 1096.91 | **1105.29** | - | - |
| MW-5 | 12/19/2000 | 47.59 | - | 1148.91 | 1111.91 | 1096.91 | **1101.32** | - | - |
| MW-5 | 10/16/2001 | 44.35 | - | 1148.91 | 1111.91 | 1096.91 | **1104.56** | - | - |
| MW-5 | 12/18/2001 | 45.93 | - | 1148.91 | 1111.91 | 1096.91 | **1102.98** | - | - |
| MW-5 | 3/21/2002 | 48.54 | - | 1148.91 | 1111.91 | 1096.91 | **1100.37** | - | - |
| MW-5 | 6/4/2002 | 46.63 | - | 1148.91 | 1111.91 | 1096.91 | **1102.28** | - | - |
| MW-5 | 9/4/2002 | 46.08 | - | 1148.91 | 1111.91 | 1096.91 | **1102.83** | - | - |
| MW-5 | 3/18/2003 | 49.91 | - | 1148.91 | 1111.91 | 1096.91 | **1099.00** | - | - |
| MW-5 | 6/3/2003 | 49.71 | - | 1148.91 | 1111.91 | 1096.91 | **1099.20** | - | - |
| MW-5 | 7/23/2003 | 49.25 | - | 1148.91 | 1111.91 | 1096.91 | **1099.66** | - | - |
| MW-5 | 10/7/2003 | 49.01 | - | 1148.91 | 1111.91 | 1096.91 | **1099.90** | - | - |
| MW-5 | 1/7/2004 | 47.57 | - | 1148.91 | 1111.91 | 1096.91 | **1101.34** | - | - |
| MW-5 | 7/20/2004 | 41.84 | - | 1148.91 | 1111.91 | 1096.91 | **1107.07** | - | - |
| MW-5 | 8/3/2006 | 46.64 | - | 1148.91 | 1111.91 | 1096.91 | **1102.27** | - | - |
| MW-5 | 9/28/2006 | 46.41 | - | 1148.91 | 1111.91 | 1096.91 | **1102.50** | - | - |
| MW-5 | 12/20/2006 | 47.97 | - | 1148.91 | 1111.91 | 1096.91 | **1100.94** | - | - |
| MW-5 | 3/26/2007 | 49.14 | - | 1148.91 | 1111.91 | 1096.91 | **1099.77** | - | - |
| MW-5 | 7/2/2007 | 44.59 | - | 1148.91 | 1111.91 | 1096.91 | **1104.32** | - | - |
| MW-5 | 10/1/2007 | 38.64 | - | 1148.91 | 1111.91 | 1096.91 | **1110.27** | - | - |
| MW-5 | 4/23/2008 | 34.79 | - | 1148.91 | 1111.91 | 1096.91 | **1114.12** | - | - |
| MW-5 | 7/24/2008 | 38.44 | - | 1148.91 | 1111.91 | 1096.91 | **1110.47** | - | - |

TABLE 1

KWIK TRIP, INC.
STATION NO. 768
MINERAL POINT, WISCONSIN

FLUID-LEVEL MEASUREMENTS
(all measurements are in feet)

| Location | Date | Depth to Water | Depth to Product | Top of Casing Elevation | Top of Screen Elevation | Bottom of Screen Elevation | Water Elevation | Product Thickness | Corrected Elevation |
|---|---|---|---|---|---|---|---|---|---|
| MW-6 | 8/20/1999 | 54.57 | - | 1134.57 | 1087.57 | 1072.57 | **1080.00** | - | - |
| MW-6 | 9/14/1999 | 56.50 | - | 1134.57 | 1087.57 | 1072.57 | **1078.07** | - | - |
| MW-6 | 12/9/1999 | 57.12 | - | 1134.57 | 1087.57 | 1072.57 | **1077.45** | - | - |
| MW-6 | 3/10/2000 | 57.40 | - | 1134.57 | 1087.57 | 1072.57 | **1077.17** | - | - |
| MW-6 | 6/22/2000 | 55.74 | - | 1134.57 | 1087.57 | 1072.57 | **1078.83** | - | - |
| MW-6 | 9/20/2000 | 56.75 | - | 1134.57 | 1087.57 | 1072.57 | **1077.82** | - | - |
| MW-6 | 12/19/2000 | 57.09 | - | 1134.57 | 1087.57 | 1072.57 | **1077.48** | - | - |
| MW-6 | 10/16/2001 | 56.48 | - | 1134.57 | 1087.57 | 1072.57 | **1078.09** | - | - |
| MW-6 | 12/18/2001 | 56.91 | - | 1134.57 | 1087.57 | 1072.57 | **1077.66** | - | - |
| MW-6 | 3/21/2002 | 57.11 | - | 1134.57 | 1087.57 | 1072.57 | **1077.46** | - | - |
| MW-6 | 6/4/2002 | 56.61 | - | 1134.57 | 1087.57 | 1072.57 | **1077.96** | - | - |
| MW-6 | 9/4/2002 | 56.90 | - | 1134.57 | 1087.57 | 1072.57 | **1077.67** | - | - |
| MW-6 | 3/18/2003 | 57.27 | - | 1134.57 | 1087.57 | 1072.57 | **1077.30** | - | - |
| MW-6 | 6/3/2003 | 56.94 | - | 1134.57 | 1087.57 | 1072.57 | **1077.63** | - | - |
| MW-6 | 7/23/2003 | 56.90 | - | 1134.57 | 1087.57 | 1072.57 | **1077.67** | - | - |
| MW-6 | 10/7/2003 | 56.87 | - | 1134.57 | 1087.57 | 1072.57 | **1077.70** | - | - |
| MW-6 | 1/7/2004 | 56.71 | - | 1134.57 | 1087.57 | 1072.57 | **1077.86** | - | - |
| MW-6 | 7/20/2004 | 55.97 | - | 1134.57 | 1087.57 | 1072.57 | **1078.60** | - | - |
| MW-6 | 8/3/2006 | 53.87 | - | 1134.57 | 1087.57 | 1072.57 | **1080.70** | - | - |
| MW-6 | 9/28/2006 | 54.61 | - | 1134.57 | 1087.57 | 1072.57 | **1079.96** | - | - |
| MW-6 | 12/20/2006 | 54.94 | - | 1134.57 | 1087.57 | 1072.57 | **1079.63** | - | - |
| MW-6 | 3/26/2007 | 54.56 | - | 1134.57 | 1087.57 | 1072.57 | **1080.01** | - | - |
| MW-6 | 7/2/2007 | 54.09 | - | 1134.57 | 1087.57 | 1072.57 | **1080.48** | - | - |
| MW-6 | 10/1/2007 | 53.31 | - | 1134.57 | 1087.57 | 1072.57 | **1081.26** | - | - |
| MW-6 | 4/23/2008 | 49.76 | - | 1134.57 | 1087.57 | 1072.57 | **1084.81** | - | - |
| MW-6 | 7/24/2008 | 52.72 | - | 1134.57 | 1087.57 | 1072.57 | **1081.85** | - | - |
| MW-7 | 6/3/2003 | 42.70 | - | 1144.97 | 1109.97 | 1099.97 | **1102.27** | - | - |
| MW-7 | 7/23/2003 | 43.21 | - | 1144.97 | 1109.97 | 1099.97 | **1101.76** | - | - |
| MW-7 | 10/7/2003 | 43.21 | - | 1144.97 | 1109.97 | 1099.97 | **1101.76** | - | - |
| MW-7 | 1/7/2004 | 41.41 | - | 1144.97 | 1109.97 | 1099.97 | **1103.56** | - | - |
| MW-7 | 7/20/2004 | 39.35 | - | 1144.97 | 1109.97 | 1099.97 | **1105.62** | - | - |
| MW-7 | 8/3/2006 | 41.92 | - | 1144.97 | 1109.97 | 1099.97 | **1103.05** | - | - |
| MW-7 | 9/28/2006 | 41.52 | - | 1144.97 | 1109.97 | 1099.97 | **1103.45** | - | - |
| MW-7 | 12/20/2006 | 41.95 | - | 1144.97 | 1109.97 | 1099.97 | **1103.02** | - | - |
| MW-7 | 3/26/2007 | 42.74 | - | 1144.97 | 1109.97 | 1099.97 | **1102.23** | - | - |
| MW-7 | 7/2/2007 | 40.76 | - | 1144.97 | 1109.97 | 1099.97 | **1104.21** | - | - |
| MW-7 | 10/1/2007 | 36.95 | - | 1144.97 | 1109.97 | 1099.97 | **1108.02** | - | - |
| MW-7 | 4/23/2008 | 36.32 | - | 1144.97 | 1109.97 | 1099.97 | **1108.65** | - | - |
| MW-7 | 7/24/2008 | 36.62 | - | 1144.97 | 1109.97 | 1099.97 | **1108.35** | - | - |
| MW-8 | 6/3/2003 | 73.63 | - | 1139.80 | 1084.80 | 1064.80 | **1066.17** | - | - |
| MW-8 | 7/23/2003 | 73.28 | - | 1139.80 | 1084.80 | 1064.80 | **1066.52** | - | - |
| MW-8 | 10/7/2003 | 72.59 | - | 1139.80 | 1084.80 | 1064.80 | **1067.21** | - | - |
| MW-8 | 1/7/2004 | 72.11 | - | 1139.80 | 1084.80 | 1064.80 | **1067.69** | - | - |
| MW-8 | 7/20/2004 | 70.21 | - | 1139.80 | 1084.80 | 1064.80 | **1069.59** | - | - |
| MW-8 | 8/3/2006 | 71.74 | - | 1139.80 | 1084.80 | 1064.80 | **1068.06** | - | - |
| MW-8 | 9/28/2006 | 71.43 | - | 1139.80 | 1084.80 | 1064.80 | **1068.37** | - | - |
| MW-8 | 12/20/2006 | 72.48 | - | 1139.80 | 1084.80 | 1064.80 | **1067.32** | - | - |
| MW-8 | 3/26/2007 | 72.62 | - | 1139.80 | 1084.80 | 1064.80 | **1067.18** | - | - |
| MW-8 | 7/2/2007 | 71.56 | - | 1139.80 | 1084.80 | 1064.80 | **1068.24** | - | - |
| MW-8 | 10/1/2007 | 69.91 | - | 1139.80 | 1084.80 | 1064.80 | **1069.89** | - | - |
| MW-8 | 4/23/2008 | 68.53 | - | 1139.80 | 1084.80 | 1064.80 | **1071.27** | - | - |
| MW-8 | 7/24/2008 | 68.53 | - | 1139.80 | 1084.80 | 1064.80 | **1071.27** | - | - |

Note : All elevations are referenced to mean sea level

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# Track & Confirm

## Search Results

Label/Receipt Number: **7007 1490 0002 1856 5238**
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- **Delivered, February 06, 2009, 9:48 am, MINERAL POINT, WI 53565**
- **Acceptance, February 05, 2009, 3:06 pm, MOUNT HOREB, WI 53572**

Track & Confirm

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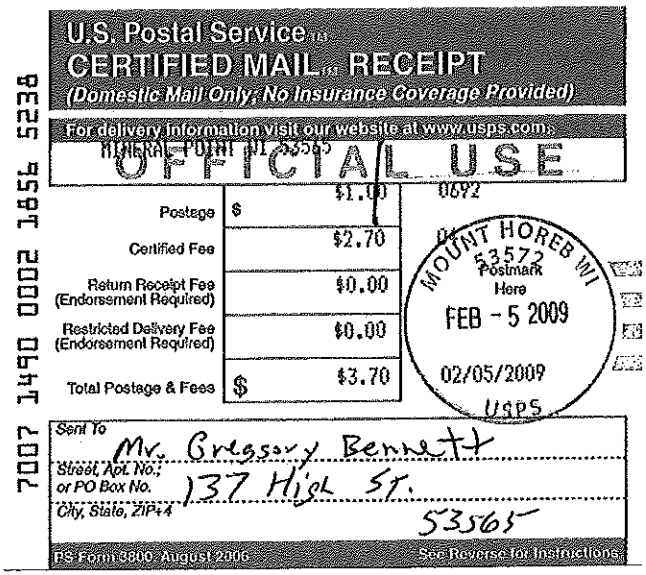

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0692

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Sent To: Mr. Gregory Bennett
Street, Apt. No.; or PO Box No.: 137 High St.
City, State, ZIP+4: 53565

PS Form 3800, August 2006  See Reverse for Instructions

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

February 4, 2009

Mr. Greggory Bennett
City of Mineral Point
137 High Street
Mineral Point, WI 53565

**RE: Notification of Petroleum Contaminated Groundwater within the Right of Way – Ridge Street (Bus Hwy 151) & Fair Street)**

Dear Mr. Bennett:

On behalf of Kwik Trip Stores, Pioneer Environmental Inc. (Pioneer) is submitting this notification as part of a WDNR Site Closure Request. The Kwik Trip Store # 768 located at 537 Ridge Street, had a petroleum release prior to 1997, that has been apart of an environmental remedial investigation (summary is within the notification). The type of regulatory site closure for this site will be a GIS groundwater listing of the Kwik Trip Parcel and the City ROW.

The WDNR will be receiving this site closure package within the next several weeks. If approved, Pioneer will be contacting The City of Mineral Point, regarding the removal/abandonment of monitoring wells and patching the pavement for the wells located in Ridge Street and Fair Street.

If you have any questions or concerns, please call or email Joseph Drapeau at Pioneer or Jeff Ackerman the WDNR Project Manager at 608-275-3323.

Very truly yours,

PIONEER ENVIRONMENTAL INC.

Joseph A. Drapeau
Senior Hydrogeologist, P.G.

Attachment: Notification of Contamination within the Right-of-Way

C. Mr. Troy Batzel, Kwik Trip Stores

PIONEER
ENVIRONMENTAL, INC.

203 ½ East Main Street, P.O. Box 102, Mount Horeb, Wisconsin 53572
608-437-3900 / jdrapeaupioneer@rxn.com

## NOTIFICATION OF CONTAMINATION WITHIN THE RIGHT OF WAY

Kwik Trip Store # 768, 537 Ridge Street, Mineral Point, WI (BRRTS # 03-25-113363 & PECFA # 53565-1440-35A)

**County:** Iowa
**Highway:** Business Route HWY 151
**Site Name:** Kwik Trip Store # 768
**Site Address:** 537 Ridge Street (Hwy 151), Mineral Point WI
**BRRTS Number:** 03-25-113363
**PECFA Number:** 53565-1440-35A
**FID Number:** -- NA --

**Owner's Name:** Kwik Trip Stores Inc
**Owner's Address:** P.O. Box 2107, 1626 Oak Street, La Crosse, WI 54602

**Consulting Firm:** Pioneer Environmental Inc
**Consultant Contact:** Joseph Drapeau
**Consultant Address:** P.O. Box 102, 203 ½ East Main Street, Mount Horeb, WI 53572
**Consultant Phone, Fax and E-mail:** 608-437-3900 (Fax & phone), jdrapeaupioneer@rxn.com

**Soil contamination? Yes/no:** NO – None in ROW
**Depth to contaminated soil:** No soil contamination in ROW, residual soil contamination in vicinity of pump islands on source property.
**Vertical extent of contaminated soil:** (e.g. from __2__ feet to __4__ feet below ground surface)
**Groundwater contamination? Yes/no :** **YES**
**Depth to water table:** 40-70 feet below ground surface

**Describe the type(s) of contamination present.** Petroleum (Gasoline) contamination related to historic release at the 537 Ridge Street property as a gasoline convenience store.

**Brief summary of cleanup activity:**

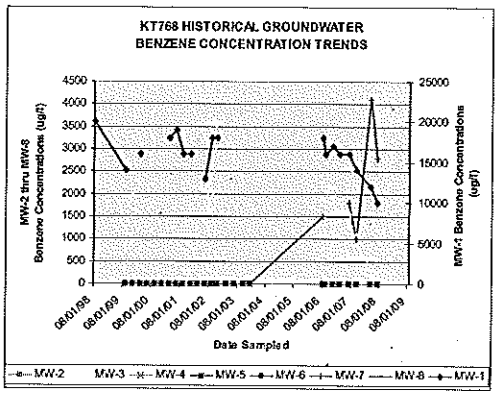
In October 1996, a pre-UST system upgrade soil profiling investigation identified petroleum contaminated soil in the vicinity of the pump islands. The UST dispenser system and piping were upgraded in April 1997, where petroleum contaminated soil was identified, and approximately 60 tons of contaminated soils were removed. Based on sample results the remaining petroleum contaminated soil was below NR720 RCLS except for the lead parameter in the immediate vicinity of the UST System.

The groundwater remedial investigation (1999-2003) consisted of the advancement of eight soil borings/rock drilling and installation of eight monitoring wells to aid in delineating the extent of the petroleum contaminated ground water plume. The historic groundwater elevation

measurements indicating groundwater at a depth of 40-70 feet below grade and a groundwater flow direction that is predominately southeast

In April 2006, 12 months of monthly free product bailing and contaminated groundwater pumping was commenced on MW-1 & MW-3. During the follow-up year of quarterly sampling, free product had a slight presence in MW-3 from a couple hundredths to 0.25 feet, free product is usually bailed down to a sheen with 1-3 gallons of product water mixture being removed.

Since 1997 there has been 27 rounds of sampling have shown that 4 of the 8 monitoring wells had basically no/slightly elevated concentrations. Based on benzene concentrations, MW-1 & MW-3 have had decreasing concentrations over time, while MW-8 had stable concentrations and MW-7 had slightly increasing concentration trends. Benzene concentrations as well as other PVOC concentrations are above NR140 ESs in MW-1, MW-3 and MW-7. The highest benzene concentration was in MW-1, 10,000 ug/l in July 2008, which is a 50% decrease since the peak concentration of 20,000 ug/l in 1998. Plume dimensions appear to have remained relatively the same

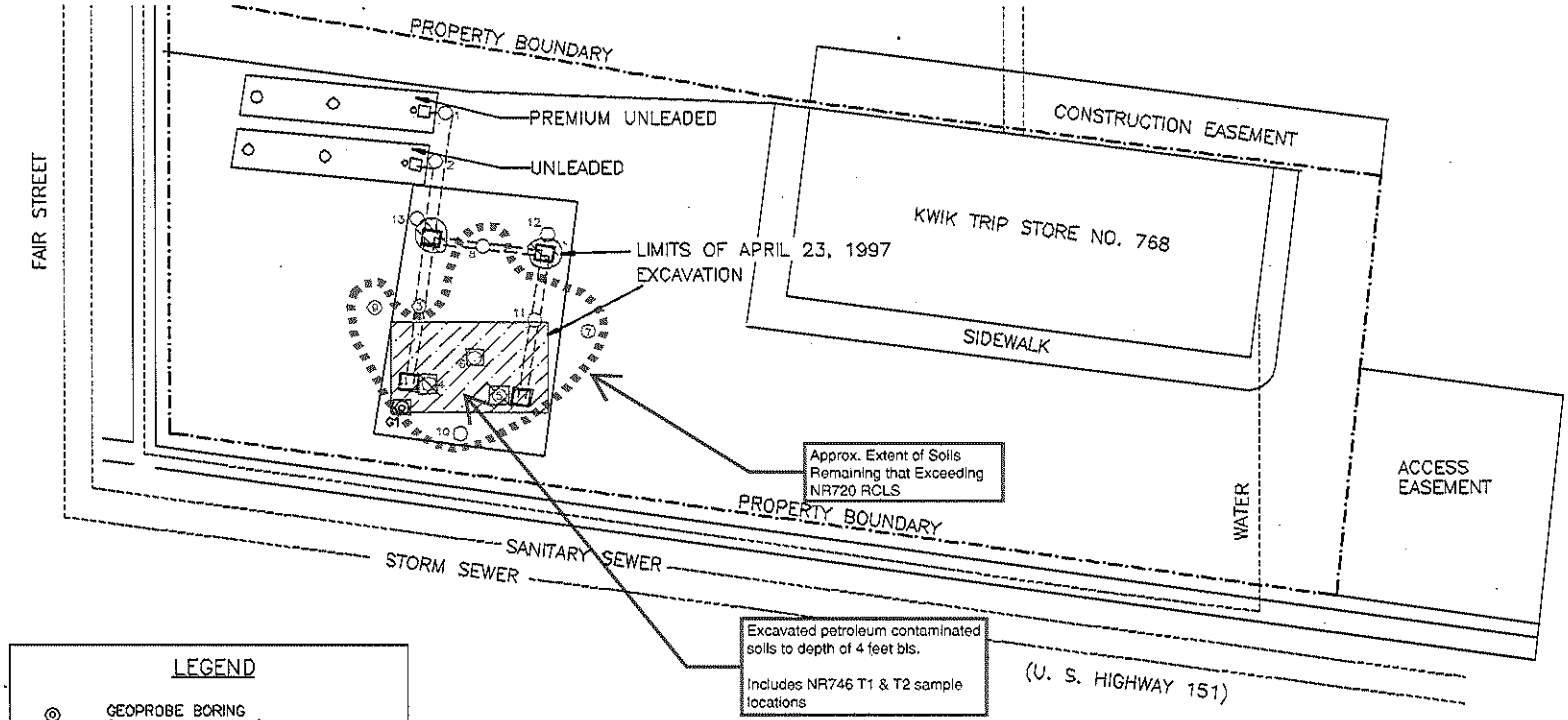



Based on monitoring results, the free phase petroleum hydrocarbons have decreased over time. In addition, the dissolve petroleum concentrations although relatively high, have also decreased overtime. The final closure alternative for this site will be natural attenuation with a GIS listed NR140 ES exceedence. Considering that there has been over 10 years of monitoring, with 27 sampling rounds having been collected. If Additional groundwater sampling is required, that will likely also continue to show decreasing PVOC concentrations; however, the hindrance to regulatory site closure is the free product and relatively high petroleum concentrations being located within the bedrock. The best active alternative would require a pumping/drawdown type system, which in bedrock would be rather expense and cost prohibited. Thus, Pioneer Environmental Inc believes the current monitoring data is sufficient at this time to approach a regulatory site closure with a GIS soil and groundwater listing.

**Attach a current plume map for groundwater contamination**
**Attach a current plume map for soil contamination**

## GENERAL

If you have any questions about the enclosures or need additional information, please feel free to contact Joseph Drapeau at (608) 437-3900.




## LEGEND

- GEOPROBE BORING (OCTOBER 29, 1996)
- SOIL SAMPLING LOCATION (APRIL 23, 1997)
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 2 FEET BELOW GRADE
- EXTENTS OF EXCAVATED SOIL TO DEPTH OF 4 FEET BELOW GRADE

Soils above NR 746 T2 Values - Red Square

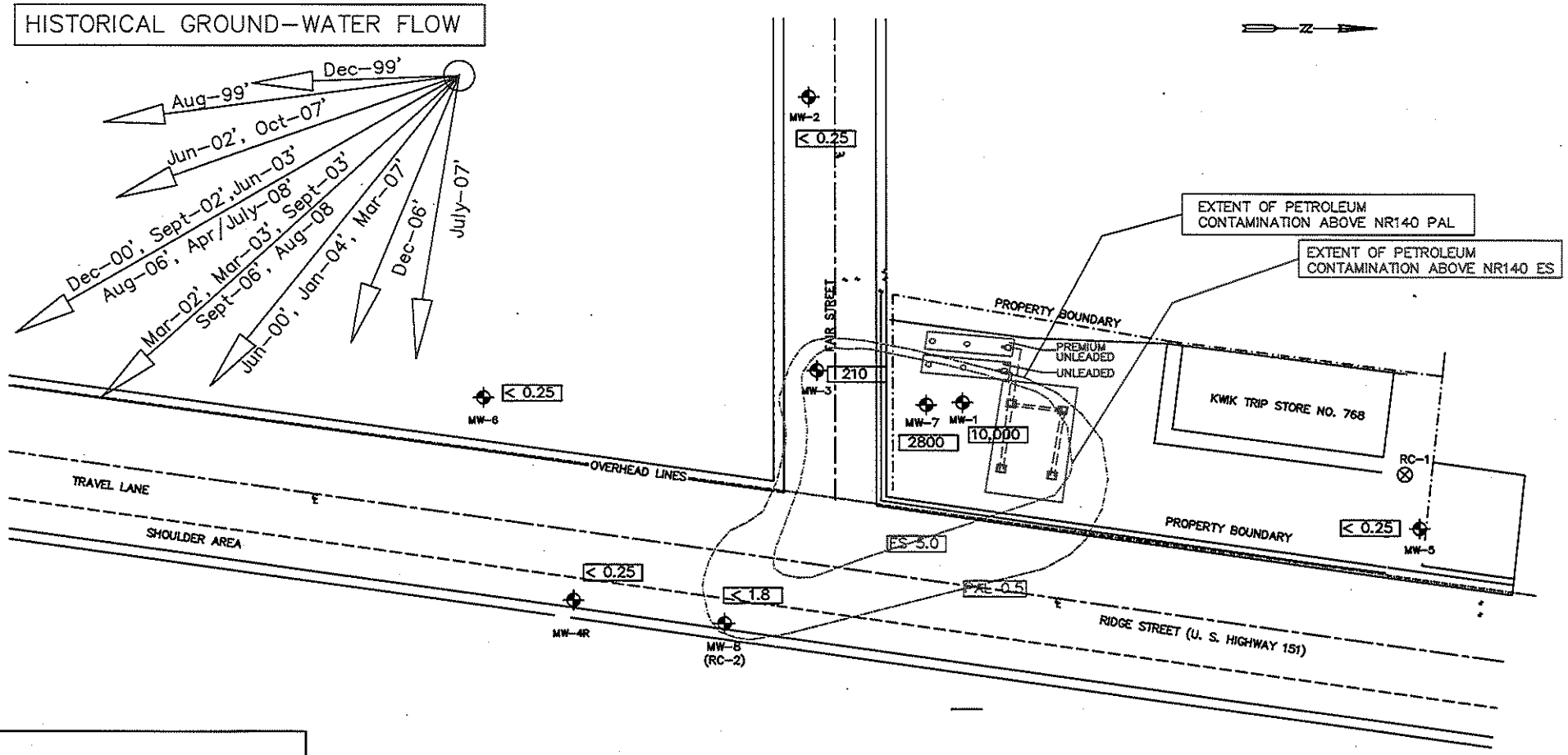
Soils Above NR 746 T1 Values - Red Slash

*ALL LOCATIONS ARE APPROXIMATE

0 20
SCALE IN FEET

Modified by Pioneer Environmental Jan 26, 2009

| | | | | |
|---|---|---|---|---|
| DATE: 1/27/1999 | PREPARED BY: LEGGETTE, BRASHEARS & GRAHAM, INC. Professional Ground-Water and Environmental Engineering Services 5625 Grand Teton Plaza Madison, WI 53719 (608) 833-6655 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | FIGURE: 3 |
| REVISION: 1 | | STATION UPGRADE SOIL SAMPLE LOCATIONS AND EXCAVATION LIMITS | |
| DISK: J:\10\KWIK\KW768\\ | | | |
| FILE: PREVINV.DWG | | | |
| DRAWN: CHECKED: | | | |




| | | | |
|---|---|---|---|
| DATE: 12/3/06 | KWIK TRIP, INC. STATION NO. 768 MINERAL POINT, WISCONSIN | PIONEER ENVIRONMENTAL INC MOUNT HOREB, WI | FIGURE: 1 |
| REVISION: 1 | | | |
| DISK: PROJECTS/KT/KT768 | | | |
| FILE: gw-flow | GROUNDWATER BENZENE CONTAMINATION MAP JULY 24, 2008 | | |
| DRAWN: CHECKED: | | | |