

Site Investigation Report for
Miller Property

Mach IV Project No. 0315-01-10
WDNR BRRTS No. 03-31-544904
WDSPS PECFA No. 54216-9651-92

N2892 Church Road
Town of West Kewaunee
Kewaunee County, Wisconsin

January 15, 2014



Mach IV

Engineering & Surveying LLC

Prepared by

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Section 1: Introduction and Background

1.1 Responsible Party Information

Mr. Tom Miller
N2892 Church Road
Kewaunee, Wisconsin 54216
(920) 304-0114

1.2 Agent Information

Mr. Chad M. Fradette
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1.3 Site Location

N2892 Church Road
Town of West Kewaunee, Kewaunee County, Wisconsin
Part of NW $\frac{1}{4}$ of the NE $\frac{1}{4}$, Section 31, Township 23N, Range 24E
Wisconsin Department of Natural Resources BRRTS No. 03-31-544904
Wisconsin Department of Safety and Professional Services PECFA No. 54216-9651-92

1.4 Site History

One underground storage tank (UST) system, a 150-gallon and a 550-gallon UST each containing leaded gasoline, according to local residents, was possibly utilized until the 1940s for the retail sale of leaded gasoline at the local general store, subject property. The former location of the USTs is located on the site map. The 150-gallon UST was removed and the 550-gallon UST was abandoned in place on February 7, 2006 by Arnie Koller of American Remediation. Chad M. Fradette, certified site assessor, performed a site assessment during UST removal activities.

Obvious soil contamination was observed by Mr. Fradette during the removal process. Mr. Fradette collected two soil samples from the 550-gallon UST through holes cut in the bottom of the tank and one sample was collected beneath the 150-gallon UST. The samples were submitted for laboratory analysis of gasoline range organics (GRO) to Pace Analytical of Green Bay, Wisconsin. The soil sample results reported a detections of GRO, T150 4' (7,400 ppm), T550 North (280 ppm), and T550 South (300 ppm).

Mach IV worked with Mr. Miller to enter into an agency agreement and prepare a deductible waiver through the PECFA program. After approval of the agency agreement and the deductible waiver by the PECFA program, Mach IV prepared a Site Investigation Work Plan, dated November 15, 2010.

Section 2: Geology and Receptors

2.1 Regional and Local Geology and Hydrogeology

Subsurface conditions on-site have been gleaned from well drilling logs of potable wells from neighboring properties and field work. The soils on-site consist of clay to 8.5 to 44 feet below ground surface (bgs). Dolomite or limestone bedrock in the immediate vicinity was encountered at depths varying from 8.5 to 56 ft bgs. The deepest boring on-site was 44 feet beneath the source area, however, less than 10 feet north of the source area, bedrock was encountered at 10 ft bgs.

It is likely that the site is located at the end of a limestone ridge. The topography of the site drops off steeply towards the east to the East Twin River, whereas the topography on the adjacent farmstead to the west is flat for a distance.

Groundwater on-site has been encountered at 1.25 to 4 feet below ground surface and it flows east towards the East Twin River.

2.2 Receptors

Groundwater

Groundwater on-site has been impacted by petroleum contamination. The groundwater contaminant plume is likely located within portions of bedrock on-site.

Buildings

Mach IV performed a vapor intrusion survey. The results of the survey are located in section 3.2.2. The building was not impacted by petroleum contamination.

Cultural Features

The cemetery located adjacent to the site was not impacted by groundwater and is located hundreds of feet side-gradient to the north of the groundwater contaminant plume.

Water Supply Wells

The site and adjacent potable wells have not been impacted by petroleum contamination and the petroleum contamination plume does not extend to the vicinity of the potable wells. The site potable well is located within 100 feet of the groundwater contaminant plume and soil contamination.

Wetlands

There are wetlands located approximately 1,500 feet east of the site and they have not been impacted by petroleum contamination.

Section 3: Site Investigation Results, Risk Criteria

3.1 Methods of Investigation

3.1.1 *Soil Borings and Soil Sampling*

Mach IV directed the installation of ten Geoprobe soil borings by Geiss Soil and Samples to determine the degree and extent of soil contamination. Soil borings GP-1 through GP-9 were installed on November 18, 2010. Due to site constraints, soil boring GP-10 was installed on December 21, 2010.

Soil was continuously screened utilizing a photo-ionization detector (PID), with the exception of GP-1 which was blind drilled from 20 to 44 feet below ground surface (ft bgs) to determine the depth to bedrock and GP-10 which was blind drilled to 12 feet to obtain soil samples from the 12 to 16 ft bgs.

3.1.2 *Groundwater Monitoring Wells and Groundwater Sampling*

Mach IV directed the installation of five groundwater monitoring wells by Geiss Soil and Samples. The groundwater monitoring wells were developed on March 2, 2011 after an extended wait to allow LNAPL to appear. Based on soil data results, LNAPL was suspected to be present. On March 21, 2011, Mach IV sampled the wells. Groundwater was also sampled on August 9, 2011, January 31, 2013 and March 14, 2014.

3.1.3 *Vapor Intrusion Analysis*

The vapor intrusion pathway was evaluated and investigation of the pathway determined to be necessary.

3.2 Data Discussion

3.2.1 *Water Supply Well Analyses*

Groundwater from the potable wells located at N2982 Church Road (site well), E2695 Krok Road, and E2711 Krok Road were sampled. The site potable well is located within 100 feet of the source area. Groundwater from the site potable well was sampled on March 21, 2011. The sample was analyzed at Pace for VOCs. The site potable well was again sampled on March 30, 2011 with the sample submitted to Pace for lead analysis. The potable well located at E2695 Krok Road is upgradient of the contaminant plume. A groundwater sample was collected from the well on March 30, 2011. The sample was submitted to Pace for VOC analysis. The potable well located at E2711 Krok Road is downgradient of the contaminant plume. Groundwater samples were collected from the well on April 19, 2011. The samples were submitted to Pace for VOC and lead analysis.

Sample analysis reported no detections of analyzed compounds above laboratory detection limits with the exception of a detection of lead (7.0 ppb) in the potable well located at E2711 Krok Road.

3.2.2 *Field Measurements and Observations*

Soil was continuously screened utilizing a PID, with the exception of GP-1 which was blind drilled from 20 to 44 feet below ground surface (ft bgs) to determine the depth to bedrock and GP-10 which was blind drilled to 12 feet to obtain soil samples from the 12 to 16 ft bgs. Positive PID readings were encountered in GP-1, GP-2, GP-6 and GP-8. Significant PID readings, those above 100 ppm, were all observed within 10 feet of the source area. PID readings in GP-1 ranged from 1,900 ppm at 6 feet bgs to 103 ppm at 20 feet bgs. PID readings in GP-2 ranged from 1,900 ppm at 6 feet bgs to 60 ppm at 12 feet bgs. PID readings in GP-6 ranged from 0.0 ppm at 8 feet bgs to 440 at 9 feet bgs. PID readings in GP-8 were not significant and ranged from 0.0 at 4 feet bgs to 15 ppm at 6 feet bgs.

3.2.3 *Soil Boring Notes*

Soil boring GP-1 was installed to examine the source area. Gravel and pea gravel was observed to four feet bgs with the highest PID reading registered at 64 ppm. Brown clay was observed to 10 feet bgs. High PID readings began just below the former UST registering at 1,000 ppm. A sand layer was encountered from 10 to 11 feet bgs containing a perched groundwater layer and registering a PID reading of 1,300 ppm. Brown clay was encountered to 20 feet bgs. PID readings dropped off below the perched groundwater layer registering from 200 ppm at 11 feet bgs to 103 ppm at 20 feet bgs. Drilling continued to 44 feet bgs to determine the depth to bedrock below the source area. Soil sample S-4 was collected at 6 to 8 feet bgs and registered a PID reading of 1,900 ppm. Sample S-6 located at 10 to 11 feet bgs registered a PID reading of 1,300 ppm. Soil sample S-9 was collected at 16 to 18 feet bgs registered a PID reading of 541 ppm. Soil sample S-9 was collected at 19 to 20 feet bgs registered a PID reading of 103 ppm.

Soil boring GP-2 was installed to examine the second source area beneath the larger UST that is abandoned in place. Pea gravel was encountered to four feet bgs. Brown clay was observed to 12 feet bgs. High PID readings began just below the UST registering at 1,600 ppm. PID readings dropped registering at 400 ppm at 8 feet bgs and 60 ppm at 12 feet bgs. Drilling could not continue below 12 feet bgs due to pea gravel filling up the borehole between soil samples. Soil sample S-4 was collected at 6 to 8 feet bgs and registered a PID reading of 1,900 ppm. Soil sample S-6 was collected at 10 to 12 feet bgs and registered a PID reading of 60 ppm.

Soil boring GP-3 was installed to define the horizontal and vertical extent of petroleum soil contamination from the source area. Pea gravel was observed to 2 feet bgs registering a PID reading of 0.0 ppm. Brown clay was observed to 10 feet bgs with the highest PID reading registering at 1.6 ppm indicating no contamination present. Sandy silt and clay and a perched groundwater layer were encountered from 10 to 14 feet bgs with PID readings registering at 0.0 ppm. Brown clay was again encountered to 16 feet bgs with a PID reading registering at 0.0 ppm. Soil sample S-7 was collected at 14 to 16 feet bgs and registered a PID reading of 0.0 ppm.

Soil boring GP-4 was installed to define the horizontal and vertical extent of petroleum soil contamination from the source area. Below the pavement and road base, brown clay was encountered until limestone bedrock ended drilling at 8.5 feet bgs. All PID readings taken from the soils registered at 0.0 ppm indicating no soil contamination. However, due to the shallow end to the boring, soil boring GP-

5 was installed to complete up-gradient definition. No soil samples were collected for laboratory analysis.

Soil boring GP-5 was installed to define the horizontal and vertical extent of petroleum soil contamination from the source area. Below the pavement and road base, brown clay was observed to 20 feet bgs. A sandy clay layer was observed from 14 to 16 feet bgs. All PID reading taken from the soils registered at 0.0 ppm. Soil sample S-8 was collected at 14 to 16 feet bgs from the sandy clay layer and registered a PID reading of 0.0 ppm.

Soil boring GP-6 was installed to define the horizontal and vertical extent of petroleum soil contamination from the source area. Gravel was encountered to 1 foot bgs and registered a PID reading of 0.0 ppm. An organic layer was encountered to 2 feet bgs and registered a PID reading of 22 ppm. Brown clay was encountered to 6 feet bgs with a high PID reading registering at 22 ppm. Brown sandy clay was observed from 6 to 8 feet bgs registering a PID reading of 7 ppm. Brown clay was again observed from 8 to 9 feet bgs registering a PID reading of 0.0 ppm. Gravel observed from 9 to 9.5 feet bgs registered a PID reading of 440 ppm. Brown clay was again observed from 9.5 to 10 feet bgs registering a PID reading of 52 ppm. Dolomite bedrock was encountered at 10 feet bgs. Due to the PID reading at 52 ppm at the bedrock interface, contamination of the bedrock by petroleum compounds is confirmed. Due to encountering bedrock at 10 feet bgs GP-7 was installed to reach deeper soils. Soil sample S-5 was collected at 8 to 10 feet bgs and registered a PID reading of 52 to 440 ppm.

Soil boring GP-7 was installed to complete the definition of the vertical extent of contamination began in soil boring GP-6. Gravel was observed to 2 feet bgs. Brown clay was observed to 10 feet bgs. All PID reading taken from the soils registered at 0.0 ppm. Dolomite bedrock was encountered at 10 feet bgs. No soil samples were collected for laboratory analysis.

Soil boring GP-8 was installed to define the horizontal and vertical extent of petroleum soil contamination from the source area. Gravel and loam were observed to 4 feet bgs and registered PID readings of 0.0 ppm. Brown clay was observed from 4 to 14 feet bgs. PID readings registered at 0.0 ppm except from 6 to 8 feet bgs where it registered at 15 ppm. A perched groundwater layer was observed to 10 feet bgs. The brown clay observed from 10 to 14 feet bgs was dry and hard, confirming that the above groundwater is perched. Gray silt and a secondary groundwater layer were observed from 14 to 16 feet bgs and registered a PID reading of 0.0 ppm. Bedrock was not encountered. Soil sample S-5 was collected at 8 to 10 feet bgs at the perched groundwater layer and registered a PID reading of 0.0 ppm. Soil sample S-8 was collected at 14 to 16 feet bgs at the groundwater interface within the gray silt layer and registered a PID reading of 0.0 ppm.

Soil boring GP-9 was installed to further define the horizontal and vertical extent of petroleum soil contamination from the source area. Topsoil was observed to 2 feet bgs and brown clay was observed to 16 feet bgs. All PID readings registered at 0.0 ppm. Soil sample S-6 was collected at 10 to 12 feet bgs and registered a PID reading of 0.0 ppm. Soil sample S-8 was collected at 14 to 16 feet bgs and registered a PID reading of 0.0 ppm.

Soil boring GP-10 was installed to further define the horizontal and vertical extent of petroleum soil contamination from the source area. The boring was blind drilled to 12 feet bgs due to the distance from the source area. Hard dry brown clay was observed from 12 to 13 feet bgs and 14 to 16 feet bgs and registered a PID reading of 0.0 ppm. Wet sandy and gravelly clay was observed from 13 to 14 feet bgs

and indicates a perched groundwater layer. Soil sample S-7 was collected from the wet sandy and gravelly clay layer observed from 13 to 14 feet bgs and registered a PID reading of 0.0 ppm.

3.2.4 Soil Analytical Results

Soil sample GP-1, S-4 reported detections of gasoline range organics (GRO)(5,540 ppm), benzene (10,900 ppb), ethylbenzene (116,000 ppb), toluene (164,000 ppb), total xylenes (447,000 ppb), 1,2,4-trimethylbenzene (TMB)(200,000 ppb), 1,3,5-trimethylbenzene (73,600 ppb), and lead (57.4 ppm). Methyl-tert-butyl ether (MTBE) was not reported above laboratory detection limits. All detections exceed the WAC NR 720 Residual Contaminant Levels (RCLs) and WAC NR746 free product indicator value where applicable.

Soil sample GP-1, S-6 reported detections of GRO (1,420 ppm), ethylbenzene (3,460 ppb), toluene (443 ppb), total xylenes (11,330 ppb), 1,2,4-TMB (22,400 ppb), 1,3,5-TMB (15,600 ppb), and lead (6.0 ppm). Benzene and MTBE were not reported above laboratory detection limits. GRO, ethylbenzene, and xylenes detections exceed the WAC NR 720 RCLs and 1,3,5-TMB exceeds the WAC NR746 free product indicator value.

Soil sample GP-1, S-9 reported detections of GRO (19.1 ppm), ethylbenzene (298 ppb), toluene (319 ppb), total xylenes (1,114 ppb), 1,2,4-TMB (554 ppb), 1,3,5-TMB (219 ppb), and lead (8.8 ppm). Benzene and MTBE were not reported above laboratory detection limits.

Soil sample GP-2, S-4 reported detections of GRO (2,250 ppm), ethylbenzene (6,900 ppb), total xylenes (63,500 ppb), 1,2,4-TMB (33,700 ppb), 1,3,5-TMB (24,100 ppb), and lead (5.7 ppm). Benzene, toluene and MTBE were not reported above laboratory detection limits. GRO, ethylbenzene, and xylenes detections exceed the WAC NR 720 RCLs and ethylbenzene, xylenes and 1,3,5-TMB exceed the WAC NR746 free product indicator value.

Soil sample GP-2, S-6 reported a detection of lead (5.7 ppm). The remainder of soil samples reported no detection of analyzed compounds above laboratory detection limits.

Soil sample GP-3, S-7 reported detections of GRO (3.6 ppm), ethylbenzene (31 ppb), total xylenes (97.4 ppb), 1,2,4-TMB (92.3 ppb), 1,3,5-TMB (42.9 ppb), and lead (5.5 ppm). Benzene, toluene and MTBE were not reported above laboratory detection limits.

Soil sample GP-4, S-8 reported a detection of lead (4.1 ppm). The remainder of soil samples reported no detection of analyzed compounds above laboratory detection limits.

Soil sample GP-6, S-5 reported detections of GRO (118 ppm), ethylbenzene (434 ppb), toluene (35,700 ppb), total xylenes (1,635 ppb), 1,3,5-TMB (188 ppb), and lead (5.4 ppm). Benzene, 1,2,4-TMB and MTBE were not reported above laboratory detection limits. GRO, and toluene detections exceed the WAC NR 720 RCLs.

Soil sample GP-8, S-5 reported detections of GRO (6.1 ppm), benzene (274 ppb), ethylbenzene (253 ppb), toluene (69.6 ppb), total xylenes (630 ppb), 1,2,4-TMB (320 ppb), 1,3,5-TMB (113 ppb), and lead (7.9 ppm). MTBE was not reported above laboratory detection limits. The detection of benzene exceeds the WAC NR 720 RCL.

Soil sample GP-8, S-8 reported a detection of lead (2.7 ppm). The remainder of soil samples reported no detection of analyzed compounds above laboratory detection limits.

Soil sample GP-9, S-6 reported a detection of lead (3.2 ppm). The remainder of soil samples reported no detection of analyzed compounds above laboratory detection limits.

Soil sample GP-9, S-8 reported a detection of lead (6.5 ppm). The remainder of soil samples reported no detection of analyzed compounds above laboratory detection limits.

Soil sample GP-10, S-7 reported a detection of lead (4.3 ppm). The remainder of soil samples reported no detection of analyzed compounds above laboratory detection limits.

3.2.5 Groundwater Analytical Results

The monitoring wells on-site were developed via weighted bailer by Mach IV on March 2, 2011. Soil sampling results from GP-1 reported that a free-product gasoline layer (LNAPL – light non-aqueous phase liquid) would possibly be determinable upon the groundwater surface in the source well at MW-1. All analyzed PVOCs, with the exception of MTBE, far exceeded the WAC NR746 free product indicator values. Initial monitoring well development was delayed to allow a possible LNAPL layer to materialize. No LNAPL layer was observed or measureable during monitoring well development or sampling of any wells.

MW-1

Monitoring well MW-1, source well, was sampled on March 21, 2011 and analyzed for VOCs and lead. The results reported detections of benzene (81.5 ppb), ethylbenzene (134.0 ppb), toluene (546 ppb), xylenes (696 ppb), trimethylbenzenes (339 ppb), cumene (17.0 ppb), p-isopropyltoluene (13.7 ppb), naphthalene (32.1 ppb), n-propylbenzene (27.9 ppb), and lead (3.6 ppb). The detection of benzene exceeds the WAC NR 140 enforcement standards (ES). The detections of toluene, trimethylbenzenes, naphthalene, and lead exceed the WAC NR 140 preventive action limits (PAL).

August 9, 2011 was sampled and analyzed for VOCs and lead. The results reported detections of benzene (134 ppb), ethylbenzene (193 ppb), total TMBs (127.7 ppb), and naphthalene (33 ppb). The detections of benzene exceed the WAC NR 140 enforcement standards (ES). The detections of ethylbenzene, total TMBs and naphthalene exceed the WAC NR 140 preventive action limits (PAL).

January 31, 2013 was sampled and analyzed for VOCs and lead. The results reported detections of benzene (69 ppb), ethylbenzene (169 ppb), total TMBs (140.3 ppb) and naphthalene (44.7 ppb). The detections of benzene exceed the WAC NR 140 enforcement standards (ES). The detections of ethylbenzene, total TMBs and naphthalene exceed the WAC NR 140 preventive action limits (PAL).

March 14, 2014 was sampled and analyzed for VOCs and lead. The results reported detections of benzene (39.3 ppb), ethylbenzene (212 ppb), total xylenes (772 ppb), total TMBs (581 ppb), and naphthalene (42.3 ppb). The detections of benzene and total TMBs exceed the WAC NR 140 enforcement standards (ES). The detections of ethylbenzene, total xylenes and naphthalene exceed the WAC NR 140 preventive action limits (PAL).

MW-2

Monitoring well MW-2, down-gradient well, was sampled on March 21, 2011, August 9, 2011, January 31, 2013 and March 14, 2014 and analyzed for VOCs. The results reported no detections of analyzed compounds above laboratory detection limits.

MW-3

Monitoring well MW-3, up-gradient well, was sampled on March 21, 2011, August 9, 2011, January 31, 2013 and March 14, 2014 and analyzed for VOCs. The results reported no detections of analyzed compounds above laboratory detection limits.

MW-4

Monitoring well MW-4, down-gradient well, was sampled on March 21, 2011, August 9, 2011, January 31, 2013 and March 14, 2014 and analyzed for VOCs. The results reported no detections of analyzed compounds above laboratory detection limits.

MW-5

Monitoring well MW-5, side-gradient well, was sampled on March 21, 2011, August 9, 2011, January 31, 2013 and March 14, 2014 and analyzed for VOCs. The results reported no detections of analyzed compounds above laboratory detection limits.

3.2.6 Vapor Intrusion Analysis

Mach IV's vapor intrusion screening and analysis combines groundwater and soil data collected during investigation activities with vapor data collected on-site. Vapor intrusion data was collected on-site on May 24, 2011.

Soil data indicated that the possibility of an LNAPL layer forming is present. Vapor intrusion of benzene and other petroleum constituents occurs most often when an LNAPL layer is located near building foundations. An LNAPL layer was not observed.

Vapor intrusion can also occur where contaminated groundwater has entered the building or is in contact within the building foundation. The Miller residence located on-site at N2892 Church Road contains a sump and drain system. It is possible that contaminated water has entered into the building through this system; however it appears that the groundwater contamination on-site is localized in the vicinity of MW-1 and may not have entered the building drain system.

The foundation of the building consists of block over stone. The basement was slightly damp and no water was observed coming through the foundation during either visit. The most toxic of the petroleum constituents, benzene, readily degrades in unsaturated, oxygenated soils, and readily evaporates from groundwater exposed to air inside a home. Vapor intrusion is often detected by smelling petroleum odor in the building. Mr. Miller was interviewed to determine if any occupants had experienced eye and

nasal passage irritation or complained of petroleum odors or mucus membrane irritation. None of these symptoms were noted.

Mach IV vapor intrusion screening evaluation:

- It does not appear that an LNAPL layer underlies the building or is within 30 feet of the building foundation.
- There does not appear to be petroleum contaminated soils with the potential for off-gassing vapors within 5-feet or less of the building foundation.
- The benzene concentration in groundwater underlying the building is not greater than 1,000 ppb.
- It is possible that groundwater contaminated with petroleum product above the WAC NR 140 PAL is intercepted by the building's foundation drain system and sump or is in contact with the building foundation.
- Although petroleum vapors are present in the vicinity of monitoring well MW-1, it does not appear that those petroleum vapors may migrate from the petroleum source and move through preferential pathways such as fractured bedrock and no sewer lines or other utilities exist in this area.

Since it is possible that groundwater contaminated with petroleum product above the WAC NR 140 PAL is intercepted by the building's foundation drain system and sump or is in contact with the building foundation, the vapor intrusion pathway screening indicates the potential for vapor intrusion.

The groundwater table at the site is very shallow measuring from 1.25 to 4 feet bgs. It is not possible to collect sub-slab soil vapor samples. Therefore vapor samples were taken from each of the groundwater monitoring wells, inside air in the basement, and within the sump.

On March 21, 2011 a sample of sump water was also proposed to be collected, however, at the time of the vapor intrusion analysis, only a very small amount of water was in the sump despite the saturated conditions outside and high groundwater table elevation and not enough was available for a sample. The sump was checked again on April 19, 2011 for water to sample from the sump, but again not enough was present. The sump was checked again on May 24, 2011 for water to sample from the sump, but again not enough was present.

On May 24, 2011 Mach IV collected PID readings from inside the basement of the home and all readings registered at 0.0 ppm. The sump was sealed and Tygon tubing was attached to the PID to observe the vapors just above the water in the sump. The sump PID readings registered at 0.0 ppm. Again Tygon tubing was attached to the PID and the vapor above the groundwater in each of the monitoring wells was observed. Each of the monitoring wells registered a PID reading of 0.0 ppm except MW-1 which registered a PID reading of 45.3 ppm.

3.3 Permeability and Hydraulic Conductivities

The majority of the site is dominated by low permeability fat and hard clay located over dolomite bedrock. The hydraulic conductivity of this type of clay would be on the order of 1×10^{-7} cm/s which is relatively impervious and leads to the formation of perched groundwater where layers of more permeable materials form a distinct layer. Perched groundwater was observed across most of the site contained in a layer of sandy clay with an estimated hydraulic conductivity of 0.1 cm/s.

The groundwater plume is contained within low permeable clay that extends into a sandy clay layer with a higher permeability located over a nearly impermeable clay layer located over dolomite bedrock.

3.4 Discussion of Results

3.4.1 *Sequence of Investigation Activities*

Mach IV commenced soil sampling activities on November 18, 2011. Groundwater monitoring wells were installed on December 20, 2011. Access to sample potable wells was obtained in February, 2011. Monitoring wells were developed on March 2, 2011. Potable well sampling and groundwater sampling was conducted on March 21, 2011. Additional potable well sampling was conducted on March 30, 2011 and April 19, 2011. Vapor intrusion sampling was conducted on May 24, 2011. Investigative waste removal was conducted on May 25, 2011.

3.4.2 *Flagged Data*

All samples collected for laboratory analysis were submitted to Pace Analytical in Green Bay, Wisconsin. No data was flagged for any reason.

3.4.3 *Inconsistencies in Data*

Field observations collected via visual, olfactory, and photo-ionization detector correlate well with the laboratory analyses. Mach IV has no recommendation for re-sampling and no change in quality control measures.

3.4.4 *Degree and Extent of Contamination*

Soil contamination of the site is largely concentrated within 10 feet of the former UST locations. Contamination that has moved off to the east from the source location appears to have followed the path of the perched groundwater some of which is located in higher permeability soils consisting of sandy clay located at depths varying from 8 to 14 feet bgs. The degree of soil contamination is significant with all petroleum compounds exceeding the WAC NR 746 LNAPL indicator, however it has remained concentrated in the vicinity of the source location.

Groundwater contamination on-site is concentrated in the vicinity of groundwater monitoring well MW-1, the source well. The contamination of this site is historic, originating from use of the site as a general store in the early part of the 20th century, and the contaminant plume is likely more than 70 years old. Due to the hard clay soils dominating the site, the groundwater contaminant plume has not migrated far from the source location, approximately 20 to 30 feet.

3.4.5 *Depth to Groundwater*

The depth to groundwater on-site varies from 1.25 to 4 feet bgs.

3.4.6 *Impacts and Risks to Receptors*

Groundwater – Groundwater in the vicinity of the contamination source has been impacted by petroleum contamination. The groundwater contaminant plume is likely located within portions of bedrock on-site. In groundwater monitoring well MW-1, source well, the detection of benzene exceeds the WAC NR 140 enforcement standards (ES) and the detections of toluene, trimethylbenzenes, naphthalene, and lead exceed the WAC NR 140 preventive action limits (PAL). Monitoring wells MW-2 through MW-5 have not been impacted by petroleum contamination.

Buildings – Mach IV performed a vapor intrusion survey. It appears that at this time, the building has not been impacted by petroleum contamination through direct contamination or through vapor intrusion.

Cultural Features – The cemetery located adjacent to the site was not impacted by groundwater and is located hundreds of feet side-gradient to the north of the groundwater contaminant plume.

Water Supply Wells – The site and adjacent potable wells have not been impacted by petroleum contamination and the petroleum contamination plume does not extend to the vicinity of the potable wells. The site potable well is located within 100 feet of the groundwater contaminant plume and soil contamination.

Wetlands – There are wetlands located approximately 1,500 feet east of the site and they have not been impacted by petroleum contamination.

Direct Contact – Based on screening conducted during collection of soil samples, no PID reading registered more than 64 ppm within the direct contact zone. Major contamination begins at 4 feet bgs in the source area. It is Mach IV's opinion that no direct contact concerns exist on-site.

3.5 Contaminant Migration

There are no utilities that intersect the contaminant plume. It is possible that contaminants could migrate into the building via drain tile and the sump. Mach IV initiated vapor intrusion testing due to this concern. Vapor intrusion or other contaminant migration does not appear to be an issue at this time. It is assumed that the groundwater plume margin is expanding, albeit slowly, due to the fact that the groundwater plume is contained within low permeability materials and the current release is about 70 years old.

3.6 Risk Screening Criteria

3.6.1 *Environmental Factors*

- Expansion of Plume Margin – At this time there is no evidence that there is an expansion of the plume margin. The groundwater monitoring well network is small and the only well contaminated is the source well.
- Private Potable Wells – There has been a detection of a contaminant concentration in a private potable well greater than the NR 140 PAL. The detection was for lead (7.0 ppm) in the potable well located at E2711 Krok Road. The source well also had a detection of lead (3.6 ppm). Lead is a

common contaminant in the area and may not be associated with the release in the source area. Typically benzene would be a leading edge contaminant and the concentration in the source well is higher than the potable well.

- Contamination in Bedrock – Soil and contamination has been found in contact with bedrock.
- LNAPL – LNAPL has not been found on-site.
- Discharge to Surface Water or Wetland – A discharge to a surface water or wetland has not occurred.

3.6.2 Risk Criteria

- Soil Screening – Soil contamination that exceeds the soil screening levels found in WAC NR 746.06 Table 1 has been found on-site within the source area.
- Direct Contact – Soil contamination within 4 feet of the surface that exceeds the direct contact concentrations in WAC NR 746.06 Table 2 has not been found.
- There are no contaminants identified by the State as contaminants of concern on-site.
- There is no contamination from a release less than ten years old.
- There is evidence of contaminant migration within a permeable soil layer and no utility corridors intersecting the contaminant plume.
- There is the potential for contaminant migration into drain tile, sumps or other points of entry into the building. No contaminant migration has been detected at this time.
- There are no wells operated by a public utility within 1,000 feet of the contaminant plume.
- The WAC NR 140 ES for benzene has been exceeded within 100 feet of a well used for human consumption.

3.7 Agency Jurisdiction

High Risk Criteria Evaluation

- There is contamination in a private well that exceeds the WAC NR 140 PAL, although it may not be related to the site.
- There has not been an observed LNAPL layer with a thickness of 0.01 feet or more.
- There is not a public well operated within 1,000 feet of the contaminant plume.
- A WAC NR 140 ES has been exceeded for benzene within 100 feet of a private well.
- A WAC NR 140 ES has not been observed within bedrock but the situation is possible.

Because there has been a detection of a contaminant that exceeds the WAC NR 140 PAL within a private potable well and there has been a detection of a contaminant the exceeds the WAC NR 140 ES within 100 feet of a private potable well, the site meets the risk criteria of a high risk site. High risk sites remain within the jurisdiction of the Wisconsin Department of Natural Resources.

Section 4: Conclusions

4.1 Summary of Results and Recommendations

Based on the soils data collected it appears that the vertical and horizontal extent of the soil contamination has been identified. The soil contamination on-site is concentrated within approximately 40 feet of the source area with significant soil contamination located entirely within 10 feet of the source area. Less significant soil contaminant concentrations have moved a bit to the east via the action of a perched groundwater layer contained within a narrow band of medium permeable sandy clay located between layers of low permeability clay. The prevalence of low permeability clay has kept the soil contamination area to a minimal extent.

Based on the location of groundwater monitoring wells and data collected from them it appears that the horizontal extent of the groundwater contamination has been identified. Soil data collected indicates that the groundwater is perched on top of low permeability clay. The groundwater contamination is concentrated in the vicinity of groundwater monitoring well MW-1. No contaminants have been found in the other monitoring wells. LNAPL has not been observed on-site.

Vapor intrusion has not been detected and no occupants of the building report any symptoms related to petroleum impacts of the building.

Mach IV recommends that one or two more rounds of groundwater sampling be conducted to verify the stability of the groundwater plume. The groundwater should also be checked to verify the absence of LNAPL due to the high contaminant concentrations within the soils. A sample of water from the sump in the basement should be tested for PVOCs if enough water enters the sump for that purpose. The site potable well and the potable well located at E2711 Krok Road should be re-sampled.

Since this is an agency site with Mach IV Engineering & Surveying LLC designated as the agent, Mach IV recommends that the additional work and closure be conducted by Mach IV.

4.2 Site Closure Decisions

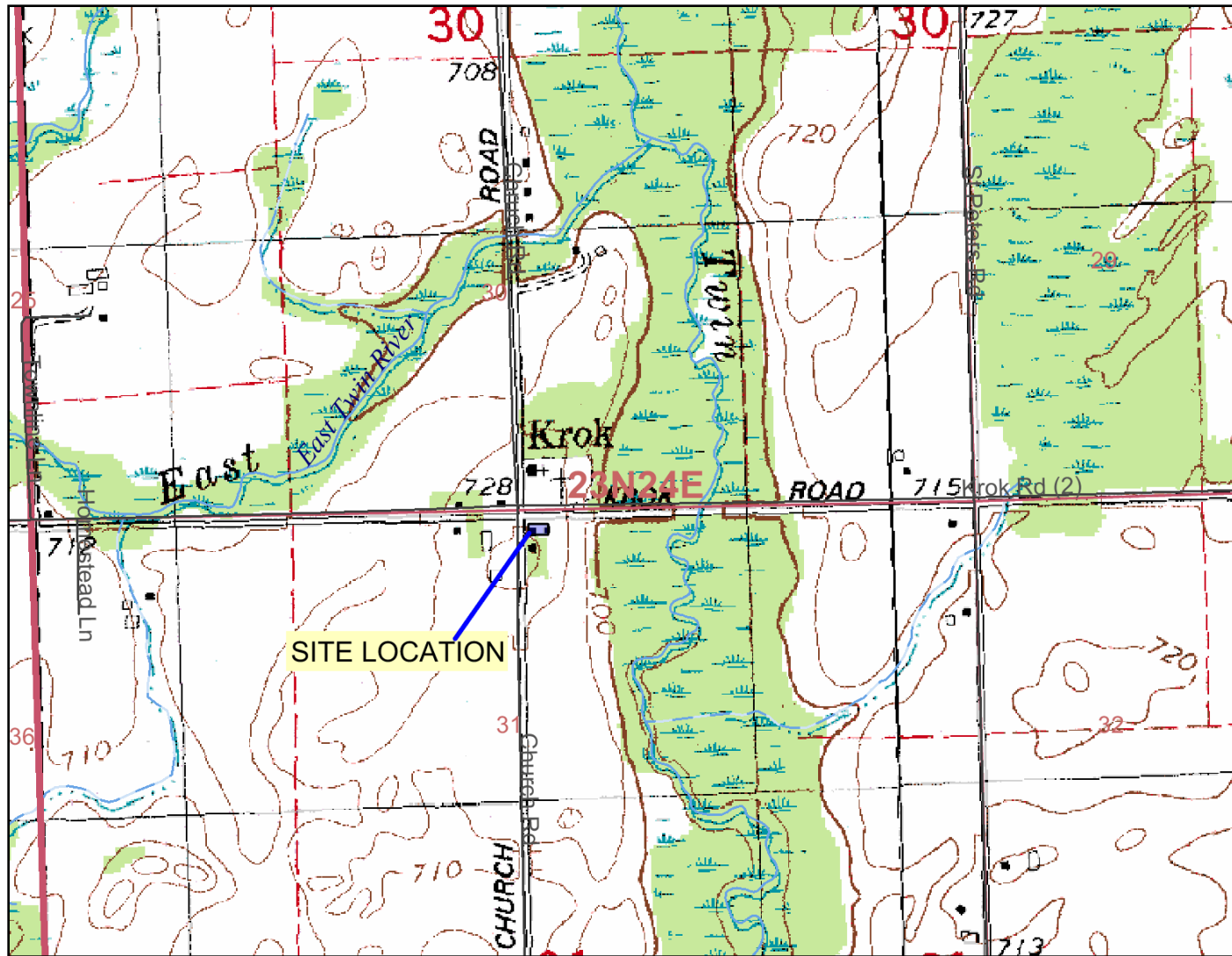
At this time, Mach IV recommends against closure due to the proximity of the plume to two private potable wells, the possibility of vapor intrusion into the site residence, and the detection of lead exceeding the WAC NR 140 PAL within a private potable well adjacent and down-gradient of the contaminant plume.

After the recommended work is complete, if the situation remains unchanged Mach IV will submit a closure request.

APPENDIX A

Site Figures

SITE LOCATION



- ### Legend
- Major Highways**
 - Interstate
 - State Highway
 - U.S. Highways
 - County Roads
 - Local Roads
 - PLSS Townships**
 - PLSS Townships
 - PLSS Sections**
 - PLSS Sections
 - 24K Open Water**
 - 24K Rivers and Shorelines
 - Intermittent**
 - Intermittent
 - Fluctuating
 - Perennial

Mach IV
 Engineering & Surveying LLC

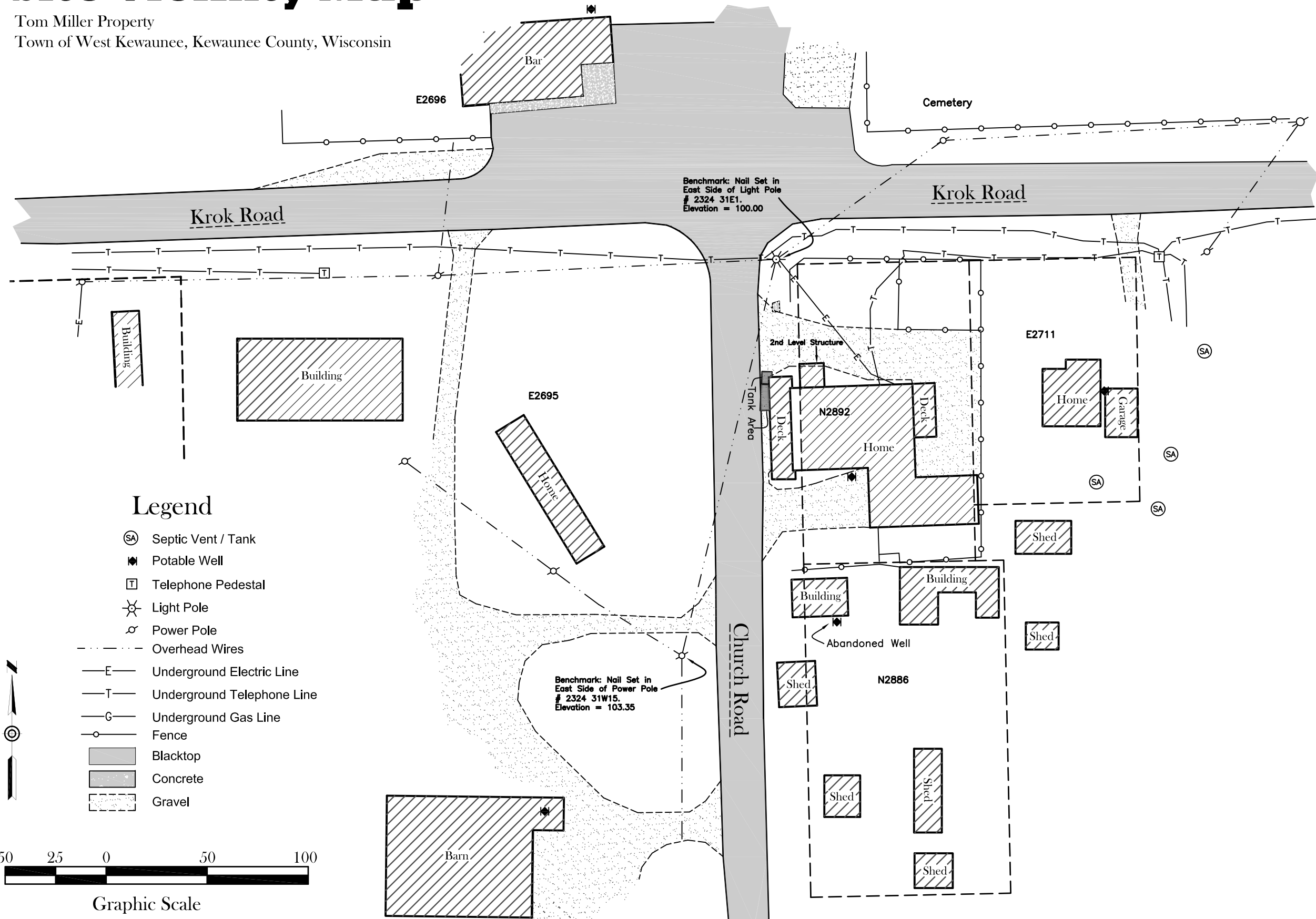


This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.

Miller Property
 N2892 Church Rd, Town of West Kewaunee, Wisconsin

Site Vicinity Map

Tom Miller Property
Town of West Kewaunee, Kewaunee County, Wisconsin



Legend

- ⊙ SA Septic Vent / Tank
- ◆ Potable Well
- ⊠ Telephone Pedestal
- ⊙ Light Pole
- ⊙ Power Pole
- Overhead Wires
- E— Underground Electric Line
- T— Underground Telephone Line
- G— Underground Gas Line
- Fence
- Blacktop
- Concrete
- Gravel



Graphic Scale

Sheet One of One
Project No. 0315-01-10
Drawing No. 385

Scale:
1"=50'

Client: Tom Miller
Drafted By: BJL
Tax Parcel No.: 020-00031-0100

Mach IV
Engineering & Surveying LLC
211 N. Broadway, Suite 114, Green Bay, WI
PH: 920-569-5765 Fax: 920-569-5767

Residual Benzene Groundwater Contamination

MARCH 21, 2011

Tom Miller Property
Town of West Kewaunee, Kewaunee County, Wisconsin

Krok Road

MONITORING WELL INFORMATION

MONITORING WELL #1

Ground Elevation = 101.23
Rim Elevation = 101.23
Pipe Elevation = 100.77

MONITORING WELL #2

Ground Elevation = 100.20
Rim Elevation = 100.15
Pipe Elevation = 99.76

MONITORING WELL #3

Ground Elevation = 101.55
Rim Elevation = 101.55
Pipe Elevation = 100.95

MONITORING WELL #4

Ground Elevation = 100.45
Rim Elevation = 100.24
Pipe Elevation = 99.80

MONITORING WELL #5

Ground Elevation = 100.90
Rim Elevation = 100.90
Pipe Elevation = 100.44



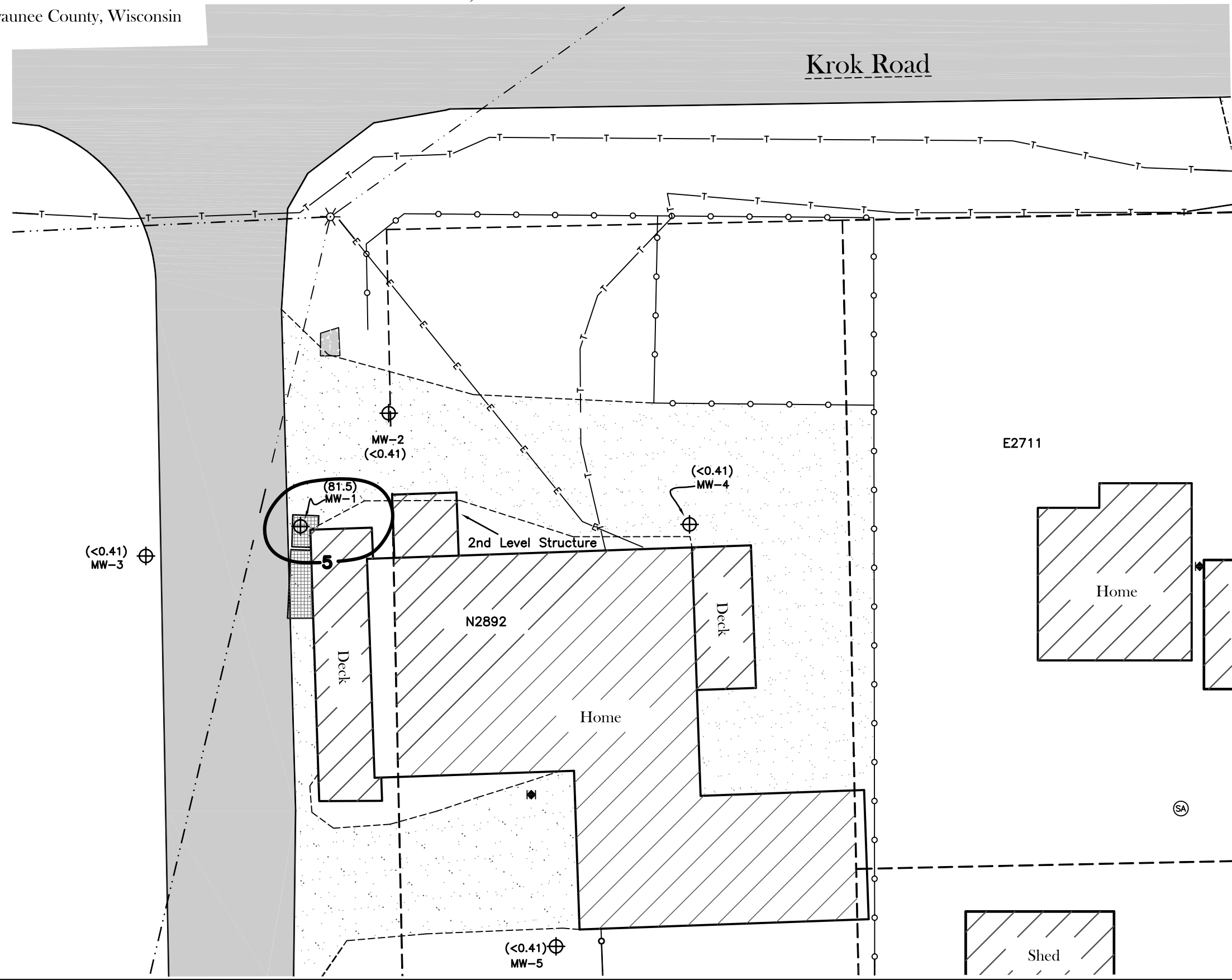
Legend

⊕ Monitoring Well Location

(81.5) Benzene Concentration ppb



Graphic Scale



Sheet Three of Three
Project No.0315-01-10
Drawing No.385

Scale:
1"=20'

Client: Tom Miller
Drafted By: BJL
Tax Parcel No.: 020-00031-0100

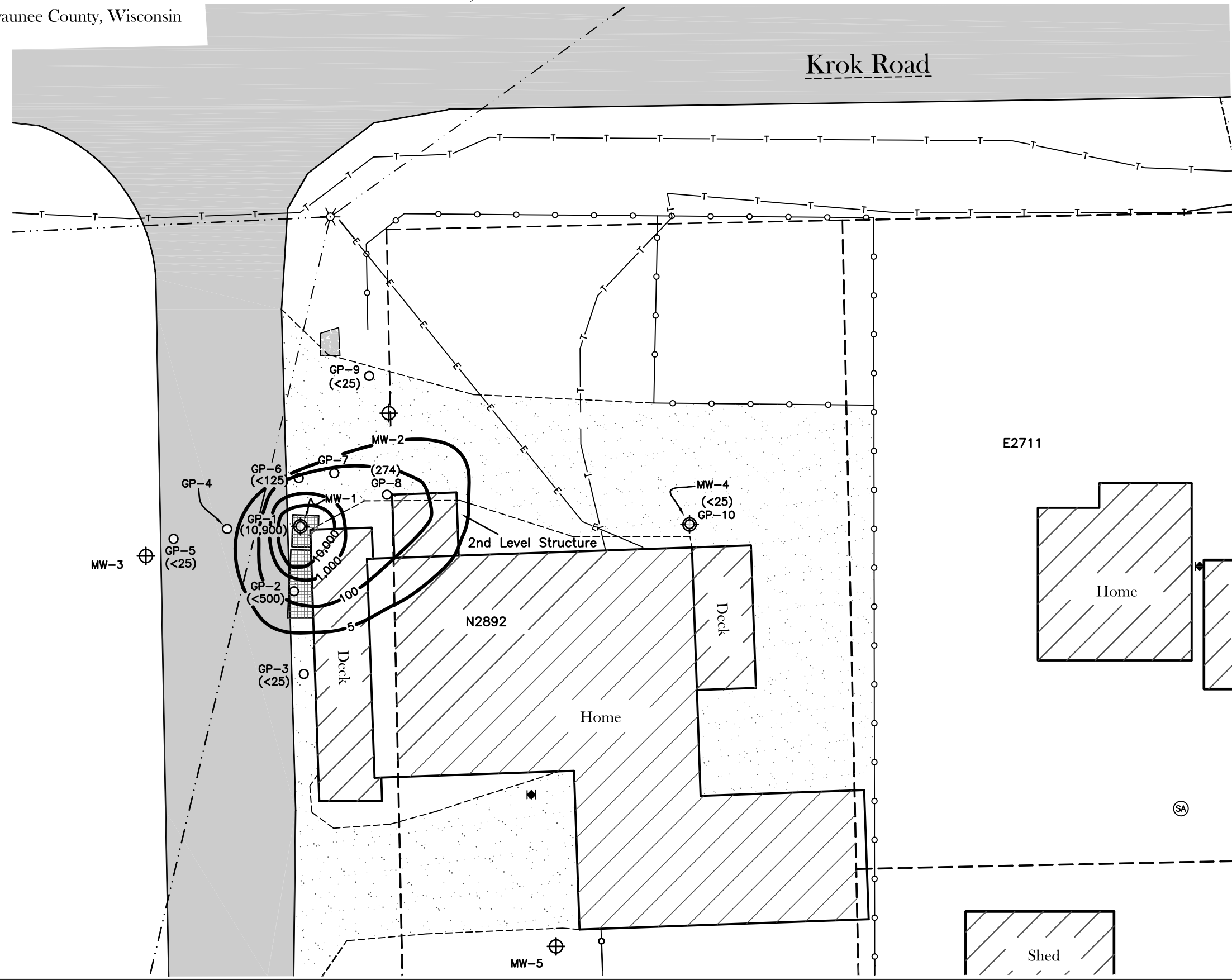
Mach IV
Engineering & Surveying, LLC
211 N. Broadway, Suite 114, Green Bay, WI
PH: 920-509-5765 Fax: 920-509-5767

Residual Benzene Soil Contamination

MARCH 21, 2011

Tom Miller Property
Town of West Kewaunee, Kewaunee County, Wisconsin

Krok Road



Legend

- Ground Probe Location
- ⊕ Monitoring Well Location
- (###) Benzene Concentration ppb



Graphic Scale

Sheet Three of Three
Project No.0315-01-10
Drawing No.385

Scale:
1"=20'

Client: Tom Miller
Drafted By: BJL
Tax Parcel No.: 020-00031-0100

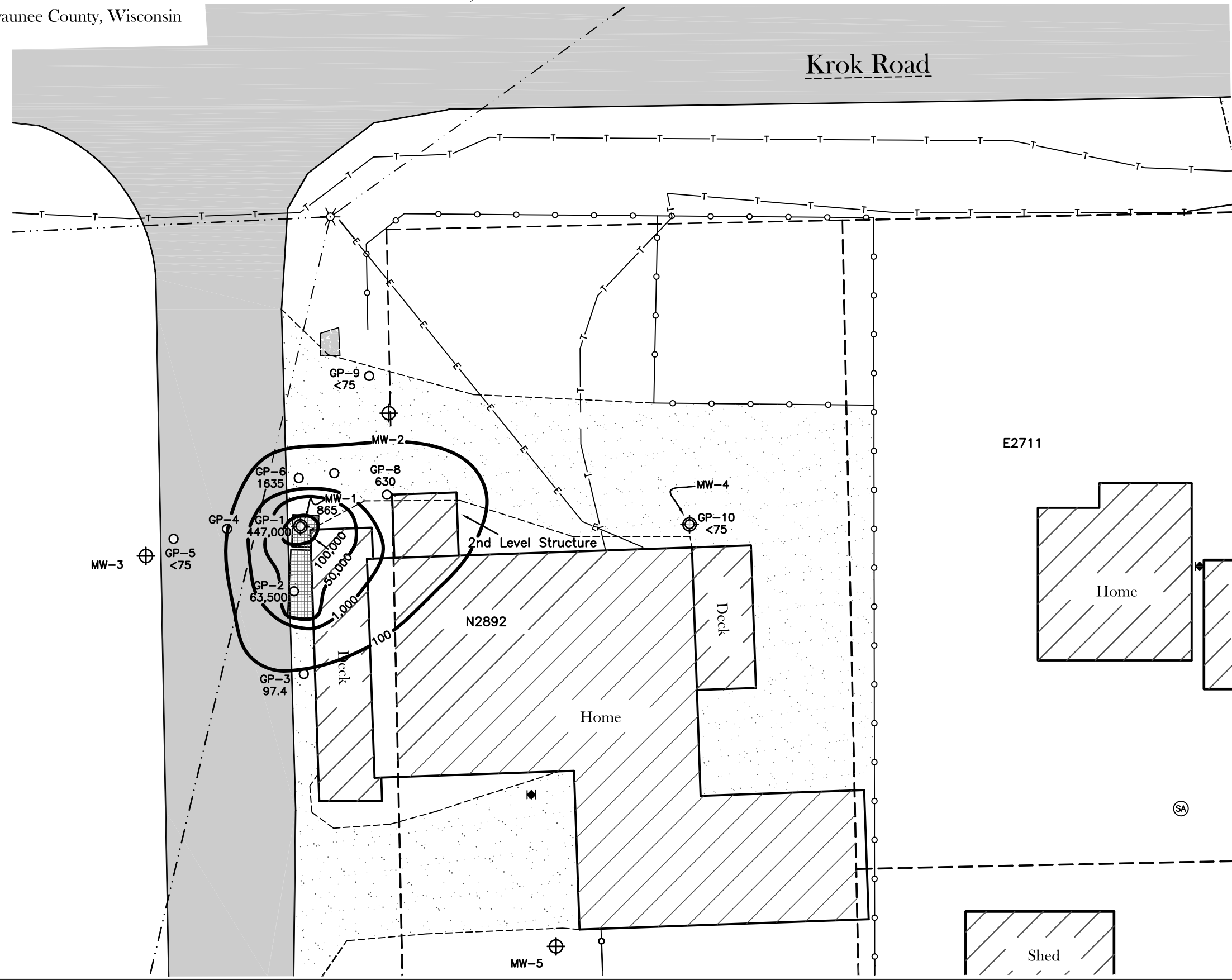
Mach IV
Engineering & Surveying, LLC
211 N. Broadway, Suite 114, Green Bay, WI
PH: 920-509-5765 Fax: 920-509-5767

Residual Xylene Soil Contamination

MARCH 21, 2011

Tom Miller Property
Town of West Kewaunee, Kewaunee County, Wisconsin

Krok Road



Sheet Three of Three
Project No.0315-01-10
Drawing No.385

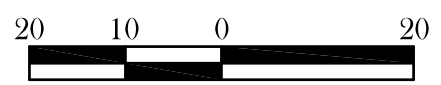
Scale:
1"=20'

Client: Tom Miller
Drafted By: BJL
Tax Parcel No.: 020-00031-0100

Mach IV
Engineering & Surveying, LLC
211 N. Broadway, Suite 114, Green Bay, WI
PH: 920-509-5765 Fax: 920-509-5767

Legend

- Ground Probe Location
- ⊕ Monitoring Well Location
- 63,500 Xylenes Concentration ppb



Graphic Scale

Groundwater Flow Map

MARCH 21, 2011

Tom Miller Property
Town of West Kewaunee, Kewaunee County, Wisconsin

Krok Road

MONITORING WELL INFORMATION

MONITORING WELL #1

Ground Elevation = 101.23
Rim Elevation = 101.23
Pipe Elevation = 100.77

MONITORING WELL #2

Ground Elevation = 100.20
Rim Elevation = 100.15
Pipe Elevation = 99.76

MONITORING WELL #3

Ground Elevation = 101.55
Rim Elevation = 101.55
Pipe Elevation = 100.95

MONITORING WELL #4



Ground Elevation = 100.45
Rim Elevation = 100.24
Pipe Elevation = 99.80

MONITORING WELL #5

Ground Elevation = 100.90
Rim Elevation = 100.90
Pipe Elevation = 100.44

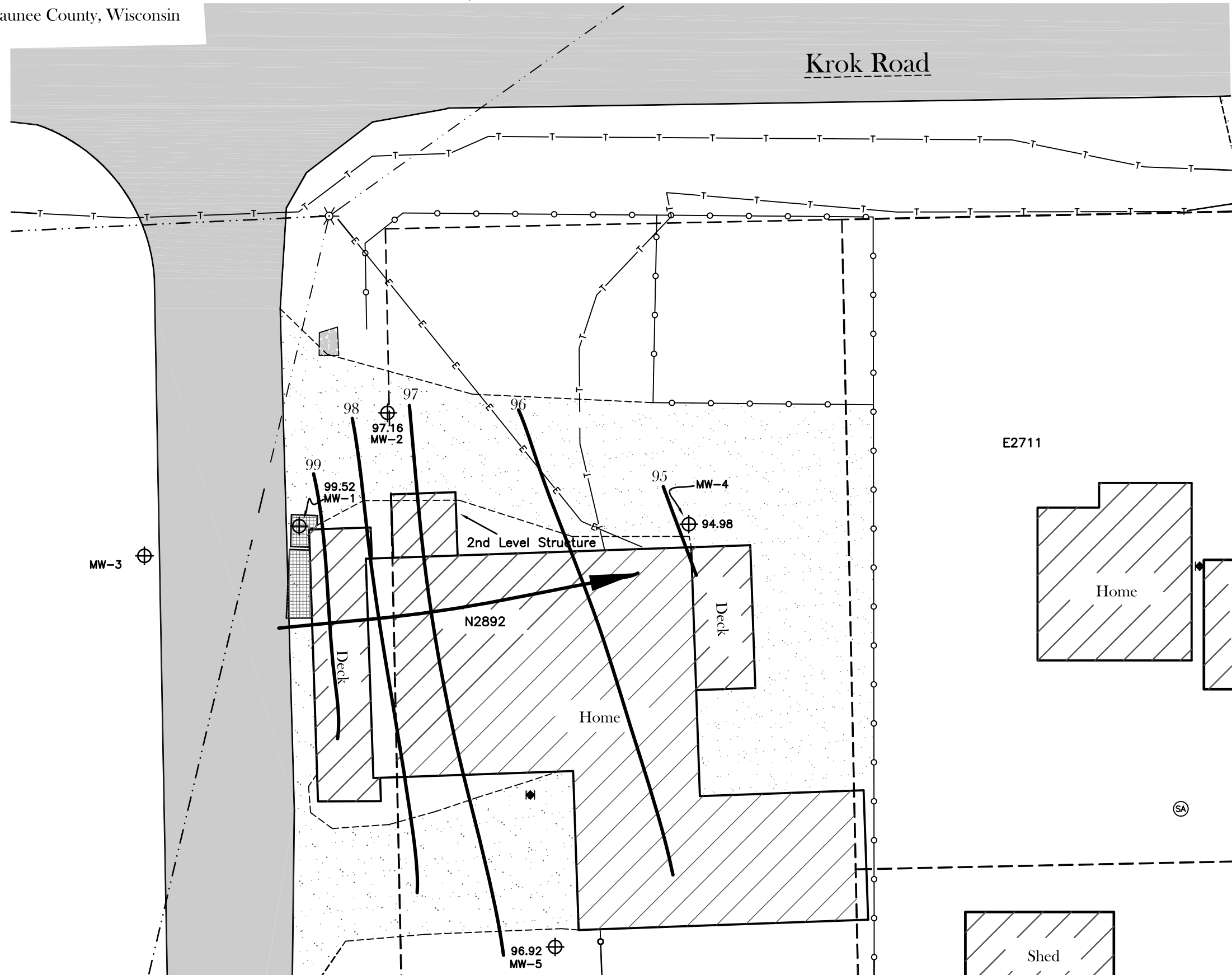


Legend

-  Monitoring Well Location
-  97.65 Groundwater Elevation



Graphic Scale



Sheet Three of Three
Project No.0315-01-10
Drawing No.385

Scale:
1"=20'

Client: Tom Miller
Drafted By: BJL
Tax Parcel No.: 020-00031-0100

Mach IV
Engineering & Surveying, LLC
211 N. Broadway, Suite 114, Green Bay, WI
PH: 920-509-5765 Fax: 920-509-5767

APPENDIX B

Data Tables

Groundwater Analytical Table
 Groundwater Sample Laboratory Analytical Results
 Miller Property
 N2892 Church Road, Kewaunee, Wisconsin

Well	Sample Date	Benzene	Ethyl-Benzene	Toluene	Total Xylenes	Total TMB's	MTBE	n-Butyl Benzene	sec-Butyl Benzene	EDB	Cumene	1,2-DCA	p-Isopropyl Toluene	Naphthalene	n-Propyl Benzene	Lead
MW-1	3/21/2011	81.5	134.0	546	696	339	<3.0	<4.6	<4.4	<2.8	17.0	<1.8	13.7	32.1	27.9	3.6
	8/9/2012	134	193	134	105	127.7	1.5J	NA	NA	NA	NA	NA	NA	33.0	NA	<1.4
	1/31/2013	69	169	63.4	84.8	140.3	2.1	NA	NA	NA	NA	NA	NA	44.7	NA	NA
	3/14/2014	39.3	212	177	772	581	<0.99	<0.80	4.3J	<0.76	13.6	<0.95	11.1	42.3	29	NA
MW-2	3/21/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	NA
	8/9/2012	<0.39	<0.41	0.81J	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	<1.4
	1/31/2013	4.3	10.4	3.3	5.2	13.2	<0.38	NA	NA	NA	NA	NA	NA	2.7	NA	NA
	3/14/2014	<0.50	<0.50	<0.44	<1.32	<1.00	<0.49	<0.40	<0.60	<0.38	<0.34	<0.48	<0.40	<2.5	<0.50	NA
MW-3	3/21/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	NA
	8/9/2012	<0.39	<0.41	1.9	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	<1.4
	1/31/2013	<0.39	<0.41	<0.42	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	NA
	3/14/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	3/21/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	NA
	8/9/2012	<0.39	<0.41	0.70J	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	<1.4
	1/31/2013	<0.39	<0.41	<0.42	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	NA
	3/14/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-5	3/21/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	NA
	8/9/2012	<0.39	<0.41	0.61J	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	<1.4
	1/31/2013	<0.39	<0.41	<0.42	<1.3	<0.83	<0.38	NA	NA	NA	NA	NA	NA	<0.40	NA	NA
	3/14/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
N2982 Church	3/21/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	NA
	3/30/2011	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.7
E2695 Krok	3/30/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	NA
E2711 Krok	4/19/2011	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	7.0
	8/9/2012	<0.41	<0.54	<0.67	<1.01	<1.71	<0.61	<0.93	<0.89	<0.56	<0.59	<0.36	<0.67	<0.89	<0.81	<1.4
	7/1/2013	<0.34	<0.34	<0.34	<1.0	<0.69	<0.37	NA	NA	NA	NA	NA	<0.34	<0.37	NA	NA
NR 140 ES		5	700	1,000	2,000	480	60	NS	NS	0.05	NS	5	NS	100	NS	15
NR 140 PAL		0.5	140	200	400	96	12	NS	NS	0.005	NS	0.5	NS	10	NS	1.5

Note: All concentrations reported in parts per billion
Bold value represents exceedence of NR 140 enforcement standard
Italicized values represent exceedence of NR 140 preventive action limits
 TMB: trimethylbenzene
 MTBE: methyl tert-butyl ether NA: not analyzed/not applicable
 Cumene: Isopropylbenzene NS: no standard
 1,2-DCA: 1,2-Dichloroethane ES: Enforcement Standard
 EDB: 1,2-Dibromoethane PAL: Preventive Action Limit

Pre-remedial Soil Analytical Table
 Soil Sample Laboratory Analytical Results
 Miller Property
 N2892 Church Road, Kewaunee, Wisconsin

Sample ID	Sample Date	Sample Interval (ft bgs)	PID (ppm eq)	GRO	Benzene	Ethyl-benzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	MTBE	Lead
<i>SITE INVESTIGATION SAMPLES</i>												
GP-1, S-4	11/18/2010	6.0 - 8.0	1,900	5,540	10,900	116,000	<i>164,000</i>	447,000	200,000	<i>73,600</i>	<2,000	57.4
GP-1, S-6	11/18/2010	10.0 - 11.0	1,300	1,420	<312	<i>3,460</i>	443	<i>11,330</i>	<i>22,400</i>	<i>15,600</i>	<312	6.0
GP-1, S-9	11/18/2010	19.0 - 20.0	103	19.1	<25	298	319	1,114	554	219	<25	8.8
GP-2, S-4	11/18/2010	6.0 - 8.0	1,900	2,250	<500	<i>6,900</i>	<500	<i>63,500</i>	<i>33,700</i>	<i>24,100</i>	<500	5.7
GP-2, S-6	11/18/2010	10.0 - 12.0	60	<2.9	<25	<25	<25	<75	<25	<25	<25	5.7
GP-3, S-7	11/18/2010	12.0 - 14.0	0.0	3.6	<25	31.0	<25	97.4	92.3	42.9	<25	5.5
GP-5, S-8	11/18/2010	14.0 - 16.0	0.0	<2.9	<25	<25	<25	<75	<25	<25	<25	4.1
GP-6, S-5	11/18/2010	8.0 - 10.0	440	118	<125	434	<i>35,700</i>	1,635	<125	188	<125	5.4
GP-8, S-5	11/18/2010	8.0 - 10.0	0.0	6.1	274	253	69.6	630	320	113	<25	7.9
GP-8, S-8	11/18/2010	14.0 - 16.0	0.0	<3.0	<25	<25	<25	<75	<25	<25	<25	2.7
GP-9, S-6	11/18/2010	10.0 - 12.0	0.0	<2.8	<25	<25	<25	<75	<25	<25	<25	3.2
GP-9, S-8	11/18/2010	14.0 - 16.0	0.0	<3.0	<25	<25	<25	<75	<25	<25	<25	6.5
GP-10, S-2	12/21/2010	2.0-4.0	---	<3.0	<25	<25	<25	<75	<25	<25	<25	4.3
Groundwater RCLs				NS	5.1	<i>1,570</i>	<i>1,107</i>	<i>3,940</i>	<i>1,382</i>	<i>1,382</i>	27	27
Non Industrial Direct Contact				NS	1,490	7,470	818,000	258,000	89,800	182,000	59,400	400

Bold value represents an exceedence of the WDNR NR720 Generic Soil Standard

Italic value represents an exceedence of the WDNR NR746 Free product indicator value

bgs: below ground surface

ppm eq: part per million equivalent

GRO: gasoline range organics

TMB: trimethylbenzene

MTBE: methyl tert-butyl ether

NS: no standard

WDNR: Wisconsin Department of Natural Resources

Vapor Analytical Table
Vapor Intrusion Analytical Results
Miller Property
Town of West Kewaunee, Wisconsin

Sample Point	Sample Date	Vapor Results (PPM)
MW-1	5/24/2011	45.3
MW-2	5/24/2011	0.0
MW-3	5/24/2011	0.0
MW-4	5/24/2011	0.0
MW-5	5/24/2011	0.0
Basement air	5/24/2011	0.0
Sump	5/24/2011	0.0

Water Level Elevations
 Groundwater Sample Laboratory Analytical Results
 Miller Property
 N2892 Church Road, Kewaunee, Wisconsin

Well	Sample Date	Groundwater Elevation
MW-1	3/21/2011	99.52
	3/14/2014	96.94
MW-2	3/21/2011	97.16
	3/14/2014	96.61
MW-3	3/21/2011	100.75**
	3/14/2014	96.65
MW-4	3/21/2011	94.98
	3/14/2014	95.21
MW-5	3/21/2011	96.92
	3/14/2014	96.04
N2982 Church	3/21/2011	-----
	3/30/2011	-----
E2695 Krok	3/30/2011	-----
E2711 Krok	4/19/2011	-----

APPENDIX C

Field Notes and Borehole Documentation

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property		License/Permit/Monitoring Number	Boring Number GP- /
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn		Date Drilling Started 11 18 2011 m m / d d / y y y y	Date Drilling Completed 11 18 2011 m m / d d / y y y y
Firm: Geiss Soil & Samples		Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated) or Boring Location <input type="checkbox"/>		Final Static Water Level Feet MSL	Surface Elevation Feet MSL
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E		Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID	County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
J-1	10		2	gravel & pea gravel	FI			24							
2	10		4	clay w/ gravel	FI			64							
3	12		6	br-clay	CL			1,000							
4	12		8					1,900							Sample
5	24		10	sandy clay w/ perched water	CL			800							Sample
6	12		12	br clay	CL			1,300							
7	0		14					200							
8	4		16					50							
9	0		18												
10	12		20					103							Sample
11			22												
12			24												
			26												
			28												
			30												
			32												
			34												
			36												
			38												
			40												
			42												
			44												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Charles M. Fradette Firm Mach IV Engineering & Surveying, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well _____		Hicap # _____		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W				Method Code (see instructions) _____			
Facility ID (FID or PWS) 03-31-544904; 54216-9651-92				License/Permit/Monitoring # GP- /			
¼ / ¼ NW or Gov't Lot #		¼ NE Section 31		Township 23 N		Range 24	
				<input checked="" type="checkbox"/> E <input type="checkbox"/> W		Original Well Owner Thomas Miller	
Well Street Address N2892 Church Rd				Present Well Owner same			
Well City, Village or Town Town of West Kewaunee				Mailing Address of Present Owner N2892 Church Rd			
Subdivision Name				Lot #		City of Present Owner Kewaunee	
				State WI		ZIP Code 54216	

Reason For Removal From Service Temporary Boring		WI Unique Well # of Replacement Well _____	
3. Well / Drillhole / Borehole Information			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 11/18/2010	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>Geoprobe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 44		Casing Diameter (in.) _____	
Lower Drillhole Diameter (in.) 2 inches		Casing Depth (ft.) _____	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)? _____		Depth to Water (feet) 10	

4. Pump, Liner, Screen, Casing & Sealing Material			
Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain): _____	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole			
From (ft.) Surface	To (ft.) 44	No. Yards, Sacks Sealant or Volume (circle one) Sacks 4.4	Mix Ratio or Mud Weight 100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114			Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M Fradette</i>	Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property			License/Permit/Monitoring Number		Boring Number GP-2			
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples			Date Drilling Started 11 18 2011 m m / d d / y y y y		Date Drilling Completed 11 18 2011 m m / d d / y y y y			
WI Unique Well No.		DNR Well ID No.		Well Name		Drilling Method Geoprobe		
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Final Static Water Level ____ Feet MSL		Surface Elevation ____ Feet MSL		Borehole Diameter 2 inches	
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E			Lat 0 ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		Feet <input type="checkbox"/> Feet <input type="checkbox"/> W	
Facility ID		County Kewaunee		County Code 3 1		Civil Town/City/ or Village Town of West Kewaunee		

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	6		2		FI										
-2	6		4	pea gravel				1600							
-3	12		6	br clay	CL			1900							sample
-4	12		8					400							
-5	12		10					60							sample
-6	12		12	EOB due to pea gravel problems											
			14												
			16												
			18												
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fradek Firm Mach IV Engineering & Surveying, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)				Facility ID (FID or PWS) 03-31-544904; 54216-9651-92			
_____ ° _____ ' N				License/Permit/Monitoring # GP- 2			
_____ ° _____ ' W				Original Well Owner Thomas Miller			
1/4 NW	1/4 NE	Section 31	Township 23 N	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner same	
Well Street Address N2892 Church Rd				Mailing Address of Present Owner N2892 Church Rd			
Well City, Village or Town Town of West Kewaunee				City of Present Owner Kewaunee			
Subdivision Name				Well ZIP Code 54216		State WI	
				Lot #		ZIP Code 54216	

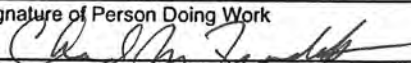
Reason For Removal From Service: Temporary Boring WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Original Construction Date (mm/dd/yyyy) 11/18/2010		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If a Well Construction Report is available, please attach.		Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>Geoprobe</u>		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

Total Well Depth From Ground Surface (ft.) <u>12</u>		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 2 inches		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	

5. Material Used To Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>12</u>	Sacks <u>1.2</u>	100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114			Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work 	Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property			License/Permit/Monitoring Number		Boring Number GP-3	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples			Date Drilling Started 11 18 2011 m m / d d / y y y y	Date Drilling Completed 11 18 2011 m m / d d / y y y y	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location			
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E			Lat 0 ' "	<input type="checkbox"/> N <input type="checkbox"/> E		
			Long 0 ' "	<input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	24		2	pea gravel	FI			0							
-2	24		4	br clay	CL			1.6							
-3	18		6					1.6							
-4	18		8					1.5							
-5	24		10	sandy silt	ML SP			1.2							
-6	24		12	br clay/w-sand	CL SP			1.5							
-7	24		14	br clay	CL			0							
-8	24		16	EOB				0							
			18												
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Chris M. Franks Firm Mach IV Engineering & Surveying, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

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<input type="checkbox"/> Verification Only of Fill and Seal	Route to:		
<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment	
<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____		

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)				Facility ID (FID or PWS) 03-31-544904; 54216-9651-92			
Method Code (see instructions)				License/Permit/Monitoring # GP-3			
1/4 NW or Gov't Lot #		1/4 NE		Section 31	Township 23 N	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W
Well Street Address N2892 Church Rd				Original Well Owner Thomas Miller			
Well City, Village or Town Town of West Kewaunee				Present Well Owner same			
Subdivision Name				Well ZIP Code 54216		Mailing Address of Present Owner N2892 Church Rd	
Reason For Removal From Service Temporary Boring				WI Unique Well # of Replacement Well		City of Present Owner Kewaunee	
3. Well / Drillhole / Borehole Information				State WI		ZIP Code 54216	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 11/18/2010		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Borehole / Drillhole		Construction Type:		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input checked="" type="checkbox"/> Other (specify): Geoprobe		<input type="checkbox"/> Dug		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft.) 16		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Casing Diameter (in.)		Casing Depth (ft.)		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A			
Lower Drillhole Diameter (in.) 2 inches		Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If yes, to what depth (feet)?		Depth to Water (feet) 12		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
5. Material Used To Fill Well / Drillhole		Required Method of Placing Sealing Material		Required Method of Placing Sealing Material			
3/8" Bentonite		<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped			
From (ft.)		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)		<input type="checkbox"/> Other (Explain): _____			
To (ft.)		Sealing Materials		Sealing Materials			
No. Yards, Sacks Sealant or Volume (circle one)		<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
Mix Ratio or Mud Weight		<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "			
Surface		<input type="checkbox"/> Concrete		<input checked="" type="checkbox"/> Bentonite Chips			
16		For Monitoring Wells and Monitoring Well Boreholes Only:		For Monitoring Wells and Monitoring Well Boreholes Only:			
Sacks 1.5		<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout			
100% Bentonite		<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry			

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114			Telephone Number (920) 569-5765	Comments	
City Green Bay		State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M Fradette</i>	Date Signed 12/21/2010

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property			License/Permit/Monitoring Number		Boring Number GP- 4
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples			Date Drilling Started 11 18 2011 m m / d d / y y y y	Date Drilling Completed 11 18 2011 m m / d d / y y y y	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E			Lat 0 ' "	Feet <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S-1	24		2	asphalt br clay	PA CL			0						
-2	24		4					0						
-3	12		6					0						
-4	12		8					0						
			10	bedrock/limestone	BR									
			12											
			14											
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fradet Firm Mach IV Engineering & Surveying, LLC

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Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)		Facility ID (FID or PWS) 03-31-544904; 54216-9651-92		License/Permit/Monitoring # GP-4	
____ ° ____ ' N		____		Original Well Owner Thomas Miller		Present Well Owner same	
____ ° ____ ' W		____		Mailing Address of Present Owner N2892 Church Rd		City of Present Owner Kewaunee	
1/4 NW	1/4 NE	Section 31	Township 23 N	Range 24	<input checked="" type="checkbox"/> E	State WI	ZIP Code 54216
or Gov't Lot #				<input type="checkbox"/> W			
Well Street Address N2892 Church Rd							
Well City, Village or Town Town of West Kewaunee				Well ZIP Code 54216			
Subdivision Name				Lot #			

Reason For Removal From Service: Temporary Boring WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 11/18/2010		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If a Well Construction Report is available, please attach.				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>Geoprobe</u>				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:				Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock				Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) <u>8.5</u>		Casing Diameter (in.)		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2 inches		Casing Depth (ft.)		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If yes, to what depth (feet)?		Depth to Water (feet)		Required Method of Placing Sealing Material	
				<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	

Sealing Materials			
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)		
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "		
<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips		
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout		
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry		

5. Material Used To Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	<u>8.5</u>	Sacks <u>0.85</u>	100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114			Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M Fradette</i>	Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page ____ of ____

Facility/Project Name Miller Property			License/Permit/Monitoring Number		Boring Number GP-5	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples			Date Drilling Started 11 18 2011 m m / d d / y y y y		Date Drilling Completed 11 18 2011 m m / d d / y y y y	
WI Unique Well No.		DNR Well ID No.	Well Name	Final Static Water Level Feet MSL		Surface Elevation Feet MSL
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N. E NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E		Lat 0 ' "		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E Feet <input type="checkbox"/> S Feet <input type="checkbox"/> W
Facility ID		County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1			2	asphalt	PA			0							
-2			4	br. clay	CL			0							
-3			6					0							
-4			8					0							
-5			10					0							
-6			12					0							
-7			14	br clay w/sand	CL SP			0							
-8			16	br-clay				0							sample
-9			18					0							
-10			20					0							
			22	EOB											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Frost Firm Mach IV Engineering & Surveying, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)				Facility ID (FID or PWS) 03-31-544904; 54216-9651-92			
Method Code (see instructions)				License/Permit/Monitoring # GP-5			
1/4 NW		1/4 NE		Section 31		Township 23 N	
or Gov't Lot #				Range 24		<input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address N2892 Church Rd				Original Well Owner Thomas Miller			
Well City, Village or Town Town of West Kewaunee				Present Well Owner same			
Well ZIP Code 54216				Mailing Address of Present Owner N2892 Church Rd			
Subdivision Name				City of Present Owner Kewaunee		State WI	ZIP Code 54216
Reason For Removal From Service Temporary Boring				WI Unique Well # of Replacement Well			

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 11/18/2010		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If a Well Construction Report is available, please attach.				Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:		<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): Geoprobe				Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Lower Drillhole Diameter (in.) 2 inches		Casing Depth (ft.)		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown				If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If yes, to what depth (feet)?		Depth to Water (feet) 8		If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity	<input type="checkbox"/> Conductor Pipe-Pumped
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips)	<input type="checkbox"/> Other (Explain): _____
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout	<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)
<input type="checkbox"/> Sand-Cement (Concrete) Grout	<input type="checkbox"/> Bentonite-Sand Slurry " "
<input type="checkbox"/> Concrete	<input checked="" type="checkbox"/> Bentonite Chips
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips	<input type="checkbox"/> Bentonite - Cement Grout
<input type="checkbox"/> Granular Bentonite	<input type="checkbox"/> Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole			
From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	Sacks 2.0	100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114			Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work 	Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page ____ of ____

Facility/Project Name Miller Property			License/Permit/Monitoring Number		Boring Number GP-6
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples			Date Drilling Started 11 18 2011 m m / d d / y y y y	Date Drilling Completed 11 18 2011 m m / d d / y y y y	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E			Lat 0 ' "	<input type="checkbox"/> N <input type="checkbox"/> E	
			Long 0 ' "	<input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee	

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	12		2	gravel organic br. clay	GP OR CL			0 22 22							
-2	12		4					18							
-3	18		6	br clay w/sand	CL SP			7							
-4	18		8	br clay gravel	CL GP			0 440							
-5			10	br clay	CL			52							sample
			12	EOB - Bedrock dolomite											
			14												
			16												
			18												
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Jankoff Firm Mach IV Engineering & Surveying, LLC

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Verification Only of Fill and Seal

Route to:

Drinking Water

Watershed/Wastewater

Remediation/Redevelopment

Waste Management

Other: _____

1. Well Location Information

County Kewaunee	WI Unique Well # of Removed Well _____	Hicap # _____
Latitude / Longitude (Degrees and Minutes) ____ ° ____ ' N ____ ° ____ ' W		Method Code (see instructions) _____
1/4 NW or Gov't Lot #	1/4 NE	Section 31
		Township 23 N
		Range 24 E
Well Street Address N2892 Church Rd		Well ZIP Code 54216
Well City, Village or Town Town of West Kewaunee		Well ZIP Code 54216
Subdivision Name		Lot #

2. Facility / Owner Information

Facility Name Miller Property
Facility ID (FID or PWS) 03-31-544904; 54216-9651-92
License/Permit/Monitoring # GP-6
Original Well Owner Thomas Miller
Present Well Owner same
Mailing Address of Present Owner N2892 Church Rd
City of Present Owner Kewaunee
State WI
ZIP Code 54216

3. Well / Drillhole / Borehole Information

Reason For Removal From Service Temporary Boring	WI Unique Well # of Replacement Well _____
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 11/18/2010
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Geoprobe	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 10	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 2 inches	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 6

4. Pump, Liner, Screen, Casing & Sealing Material

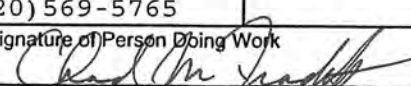
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	10	Sacks 1.0	100% Bentonite

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing Chad M Fradette	License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	DNR Use Only	
Street or Route 211 N. Broadway, Suite 114		Telephone Number (920) 569-5765	Date Received	Noted By
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work 	
			Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property		License/Permit/Monitoring Number		Boring Number GP-7	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples		Date Drilling Started 11 18 2011 m m / d d / y y y y	Date Drilling Completed 11 18 2011 m m / d d / y y y y	Drilling Method Geoprobe	
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level ____ Feet MSL	Surface Elevation ____ Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E			Lat 0 ' " Long 0 ' " <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W		
Facility ID		County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee	

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
S-1			2	gravel	GP	GP		0						
-2			4	br clay	CL	CL		0						
-3			6					0						
-4			8					0						
-5			10					0						
			12	EOB - dolomite bedrock										
			14											
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fradette Firm Mach IV Engineering & Surveying, LLC

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Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)				Facility ID (FID or PWS) 03-31-544904; 54216-9651-92			
Method Code (see instructions)				License/Permit/Monitoring # GP-7			
1/4 NW		1/4 NE		Section 31		Township 23 N	
or Gov't Lot #				Range 24		<input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address N2892 Church Rd				Original Well Owner Thomas Miller			
Well City, Village or Town Town of West Kewaunee				Present Well Owner same			
Subdivision Name				Well ZIP Code 54216		Mailing Address of Present Owner N2892 Church Rd	
				City of Present Owner Kewaunee		State WI	ZIP Code 54216

Reason For Removal From Service Temporary Boring		WI Unique Well # of Replacement Well		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 11/18/2010		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Construction Type:		If a Well Construction Report is available, please attach.		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A If bentonite chips were used, were they hydrated with water from a known safe source? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Geoprobe				Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			

Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		Sealing Materials <input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
Total Well Depth From Ground Surface (ft.) 10		Casing Diameter (in.)		For Monitoring Wells and Monitoring Well Boreholes Only: <input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			
Lower Drillhole Diameter (in.) 2 inches		Casing Depth (ft.)					
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		If yes, to what depth (feet)?		Depth to Water (feet)			

5. Material Used To Fill Well / Drillhole					
3/8" Bentonite		From (ft.) Surface	To (ft.) 10	No. Yards, Sacks Sealant or Volume (circle one) Sacks 1.0	Mix Ratio or Mud Weight 100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette		License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114			Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M Fradette</i>	Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property		License/Permit/Monitoring Number		Boring Number GP-8	
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn		Date Drilling Started 11 18 2011	Date Drilling Completed 11 18 2011	Drilling Method Geoprobe	
Firm: Geiss Soil & Samples		Final Static Water Level _____ Feet MSL		Surface Elevation _____ Feet MSL	
WI Unique Well No.	DNR Well ID No.	Well Name		Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>		State Plane N _____ E _____ NW 1/4 of NE 1/4 of Section 31 T 23 N R 24 E		Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W	
Facility ID		County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee	

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
8-1	10		2	gravel	GP			0						
-2	10		4	silt loam	CL		0							
-3	20		6	br clay			0							
-4	24		8				15							
-5	24		10	perched H2O			0						sample	
-6	24		12	dry			0							
-7	24		14				0							
-8	24		16	gray silt wet	ML		0						sample	
			18	EOB possibly bedrock										
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fradette Firm Mach IV Engineering & Surveying, LLC

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Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

<input type="checkbox"/> Verification Only of Fill and Seal	Route to:		
	<input type="checkbox"/> Drinking Water	<input type="checkbox"/> Watershed/Wastewater	<input checked="" type="checkbox"/> Remediation/Redevelopment
	<input type="checkbox"/> Waste Management	<input type="checkbox"/> Other: _____	

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)		Facility ID (FID or PWS) 03-31-544904; 54216-9651-92		License/Permit/Monitoring # GP-8	
1/4 NW 1/4 NE Section Township Range <input checked="" type="checkbox"/> E or Gov't Lot # 31 23 N 24 <input type="checkbox"/> W				Original Well Owner Thomas Miller		Present Well Owner same	
Well Street Address N2892 Church Rd				Mailing Address of Present Owner N2892 Church Rd			
Well City, Village or Town Town of West Kewaunee				Well ZIP Code 54216			
Subdivision Name				Lot #		City of Present Owner Kewaunee	
				State WI		ZIP Code 54216	

Reason For Removal From Service Temporary Boring	WI Unique Well # of Replacement Well
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3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 11/18/2010	Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): Geoprobe	<input type="checkbox"/> Dug	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) 16		If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing Diameter (in.)		Required Method of Placing Sealing Material			
Lower Drillhole Diameter (in.) 2 inches		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Sealing Materials			
If yes, to what depth (feet)?		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.) <input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " " <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
Depth to Water (feet) 8		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole			
3/8" Bentonite	From (ft.) Surface	To (ft.) 16	No. Yards, Sacks Sealant or Volume (circle one) Sacks 1.6
			Mix Ratio or Mud Weight 100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette	License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By	
Street or Route 211 N. Broadway, Suite 114		Telephone Number (920) 569-5765	Comments		
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M Fradette</i>	Date Signed 12/21/2010	

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page _____ of _____

Facility/Project Name Miller Property			License/Permit/Monitoring Number		Boring Number GP-9
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples			Date Drilling Started 11 18 2011 m m / d d / y y y y	Date Drilling Completed 11 18 2011 m m / d d / y y y y	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>			Local Grid Location		
State Plane NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E			Lat 0 ' "	<input type="checkbox"/> N <input type="checkbox"/> E	
Facility ID			County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee
			<input type="checkbox"/> S <input type="checkbox"/> W		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1	20		2	Topsoil	TO			0							
-2	20		4	br Clay	CL			0							
-3	24		6					0							
-4	24		8					0							
-5	24		10					0							
-6	24		12					0							sample
-7	24		14					0							
-8	24		16					0							sample
			18	EOB											
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fiedt Firm Mach IV Engineering & Surveying, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)				Facility ID (FID or PWS) 03-31-544904; 54216-9651-92			
Method Code (see instructions)				License/Permit/Monitoring # GP-9			
1/4 NW		1/4 NE		Section 31		Township 23 N	
or Gov't Lot #				Range 24		<input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address N2892 Church Rd				Original Well Owner Thomas Miller			
Well City, Village or Town Town of West Kewaunee				Present Well Owner same			
Subdivision Name				Well ZIP Code 54216		Mailing Address of Present Owner N2892 Church Rd	
				City of Present Owner Kewaunee		State WI	
				Lot #		ZIP Code 54216	

Reason For Removal From Service
Temporary Boring

WI Unique Well # of Replacement Well

3. Well / Drillhole / Borehole Information

Monitoring Well Original Construction Date (mm/dd/yyyy)
 Water Well 11/18/2010

Borehole / Drillhole If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): Geoprobe

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.) Casing Diameter (in.)

16

Lower Drillhole Diameter (in.) Casing Depth (ft.)

2 inches

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet)

_____ _____

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips) Other (Explain): _____

Sealing Materials

Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)

Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "

Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips Bentonite - Cement Grout

Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	16	Sacks 16	100% Bentonite

6. Comments

7. Supervision of Work

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette	License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By
Street or Route 211 N. Broadway, Suite 114		Telephone Number (920) 569-5765	Comments	
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work <i>Chad M. Fradette</i>	Date Signed 12/21/2010

Route To: Watershed/Wastewater Waste Management
Remediation/Revelopment Other

Page ____ of ____

Facility/Project Name Miller Property		License/Permit/Monitoring Number	Boring Number GP-10
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Landon Last Name: Malzahn Firm: Geiss Soil & Samples		Date Drilling Started 12 20 2011 m m / d d / y y y y	Date Drilling Completed 12 20 2011 m m / d d / y y y y
Drilling Method Geoprobe	WI Unique Well No.	DNR Well ID No.	Well Name
Final Static Water Level Feet MSL	Surface Elevation Feet MSL	Borehole Diameter 2 inches	
Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Boring Location <input type="checkbox"/>	State Plane N, E NW 1/4 of NE 1/4 of Section 31, T 23 N, R 24 E	Lat 0 ' "	Local Grid Location <input type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> S <input type="checkbox"/> W
Facility ID	County Kewaunee	County Code 3 1	Civil Town/City/ or Village Town of West Kewaunee

Sample Number and Type	Length Air. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties					RQD/ Comments	
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
S-1 0			2	Tops soil Brown Clay	CL			6							
-2 0			4												
-3 0			6												
-4 0			8												
-5 24			10					6							
-6 24			12	sandy groundwater fractured clay	CL			0						sample	
-7 24			14		SP			0							
-8 24			16												
			18	EOB Refusal on very hard clay!	CL										
			20												
			22												

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Chad M. Fradet Firm Mach IV Engineering & Surveying, LLC

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County Kewaunee		WI Unique Well # of Removed Well		Hicap #		Facility Name Miller Property	
Latitude / Longitude (Degrees and Minutes)				Facility ID (FID or PWS) 03-31-544904; 54216-9651-92			
_____ ° _____ ' N				License/Permit/Monitoring # GP-10			
_____ ° _____ ' W				Original Well Owner Thomas Miller			
1/4 NW	1/4 NE	Section 31	Township 23 N	Range 24	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner same	
Well Street Address N2892 Church Rd				Mailing Address of Present Owner N2892 Church Rd			
Well City, Village or Town Town of West Kewaunee				Well ZIP Code 54216			
Subdivision Name				City of Present Owner Kewaunee		State WI	ZIP Code 54216

Reason For Removal From Service: Temporary Boring WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 12/20/2010	Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.	Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input type="checkbox"/> Drilled	<input type="checkbox"/> Driven (Sandpoint)	Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): <u>Geoprobe</u>	<input type="checkbox"/> Dug	Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Formation Type:		Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Unconsolidated Formation	<input type="checkbox"/> Bedrock	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Total Well Depth From Ground Surface (ft.) <u>16</u>	Casing Diameter (in.)	If bentonite chips were used, were they hydrated with water from a known safe source?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Lower Drillhole Diameter (in.) 2 inches	Casing Depth (ft.)	Required Method of Placing Sealing Material			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	Depth to Water (feet) <u>13</u>	<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
If yes, to what depth (feet)?		<input checked="" type="checkbox"/> Screened & Poured (Bentonite Chips) <input type="checkbox"/> Other (Explain): _____			
		Sealing Materials			
		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
		<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Bentonite Chips			
		For Monitoring Wells and Monitoring Well Boreholes Only:			
		<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole			
3/8" Bentonite	From (ft.) Surface	To (ft.) <u>16</u>	No. Yards, Sacks Sealant or Volume (circle one) Sacks <u>1.6</u> Mix Ratio or Mud Weight 100% Bentonite

6. Comments

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Chad M Fradette	License # 892926	Date of Filling & Sealing (mm/dd/yyyy) 11/18/2010	Date Received	Noted By	
Street or Route 211 N. Broadway, Suite 114		Telephone Number (920) 569-5765	Comments		
City Green Bay	State WI	ZIP Code 54303	Signature of Person Doing Work 	Date Signed 12/21/2010	

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name Miller Property	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. VZ 273 DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed 12/20/2010 m m d d y y y y
Type of Well Well Code 11, MW	Section Location of Waste/Source NW 1/4 of NE 1/4 of Sec. 31, T. 23 N. R. 24 <input checked="" type="checkbox"/> W	Well Installed By: Name (first, last) and Firm Landon Malzahn Geiss Soil & Samples LLC
Distance from Waste/Source ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number

A. Protective pipe, top elevation 101.23 ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation 100.77 ft. MSL	2. Protective cover pipe: a. Inside diameter: 8 in. b. Length: 1 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation 101.23 ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe:
D. Surface seal, bottom 0 ft. MSL or 0 ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. #15 Red Flint b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	8. Filter pack material: Manufacturer, product name & mesh size a. #40 Red Flint b. Volume added _____ ft ³
Describe _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
17. Source of water (attach analysis, if required):	10. Screen material: PVC a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or 5 ft.	b. Manufacturer Monoflex c. Slot size: 0.010 in. d. Slotted length: 10 ft.
F. Fine sand, top _____ ft. MSL or 3 ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
G. Filter pack, top _____ ft. MSL or 4 ft.	
H. Screen joint, top _____ ft. MSL or 5 ft.	
I. Well bottom _____ ft. MSL or 15 ft.	
J. Filter pack, bottom _____ ft. MSL or 15 ft.	
K. Borehole, bottom _____ ft. MSL or 15 ft.	
L. Borehole, diameter 8.25 in.	
M. O.D. well casing 2.40 in.	
N. I.D. well casing 2.06 in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature **Landon Malzahn** Firm **Geiss Soil & Samples LLC**

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Miller Property	County Name Kewaunee	Well Name MW- /
Facility License, Permit or Monitoring Number	County Code 31	Wis. Unique Well Number VZ 273
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 15 min.

4. Depth of well (from top of well casing) 13.9 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.9 gal.

7. Volume of water removed from well 1.9 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>3.12</u> ft.	<u>1.25</u> ft.
Date	b. <u>03/02/2011</u> m m d d y y y y	<u>03/21/2011</u> m m d d y y y y
Time	c. <u>07:10</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>11:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>3</u> inches	<u>0</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 <u>Turbid <input checked="" type="checkbox"/> 15</u> (Describe) <u>574cf</u>	Clear <input type="checkbox"/> 20 <u>Turbid <input type="checkbox"/> 25</u> (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Chad Last Name: Fradette
Firm: Mach IV Engineering & Surveying LLC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Thomas Last Name: Miller
Facility/Firm: Miller Property
Street: N2892 Church Rd
City/State/Zip: Kewaunee, WI 54216

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Chad M Fradette
Print Name: Chad M Fradette
Firm: Mach IV Engineering & Surveying LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

Facility/Project Name <u>Miller Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-2</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ " Long. _____ " or _____	Wis. Unique Well No. <u>V2274</u> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>12/20/2010</u> m m d d y y y y
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source <u>NW 1/4 of NE 1/4 of Sec. 31, T. 23 N, R. 24</u> <input type="checkbox"/> E <input checked="" type="checkbox"/> W	Well Installed By: Name (first, last) and Firm <u>Landon Matzahn</u> <u>Geiss Soil & Samples LLC</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	Gov. Lot Number _____

A. Protective pipe, top elevation <u>102.15</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation <u>99.76</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: _____ ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>100.20</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#15 Red Flint</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>0.5</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>3</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10</u> ft.
G. Filter pack, top _____ ft. MSL or <u>4</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>5</u> ft.	
I. Well bottom _____ ft. MSL or <u>15</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>15</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>15</u> ft.	
L. Borehole, diameter <u>8.25</u> in.	
M. O.D. well casing <u>2.40</u> in.	
N. I.D. well casing <u>2.06</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.
Signature Landon Matzahn Firm Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Miller Property	County Name Kewaunee	Well Name MW-2
Facility License, Permit or Monitoring Number	County Code 31	Wis. Unique Well Number VZ 274
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other

3. Time spent developing well 25 min.

4. Depth of well (from top of well casing) 13.7 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.8 gal.

7. Volume of water removed from well 1.8 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

11. Depth to Water (from top of well casing)

	<u>Before Development</u>	<u>After Development</u>
a.	<u>3.25</u> ft.	<u>2.60</u> ft.
Date	b. <u>03 / 02 / 2011</u>	<u>03 / 21 / 2011</u>
	m m d d y y y y	m m d d y y y y
Time	c. <u>08:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>10:00</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.

12. Sediment in well bottom 1 inches 0 inches

13. Water clarity

Clear <input type="checkbox"/> 10	Clear <input type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 15	Turbid <input type="checkbox"/> 25
(Describe) <u>silty</u>	(Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Chad Last Name: Fradette

Firm: Mach IV Engineering & Surveying LLC

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Thomas Last Name: Miller

Facility/Firm: Miller Property

Street: N2892 Church Rd

City/State/Zip: Kewaunee, WI 54216

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: *Chad M Fradette*

Print Name: Chad M Fradette

Firm: Mach IV Engineering & Surveying LLC

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name <u>Miller Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.	Well Name <u>MW-3</u>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " Long. " or " "	Wis. Unique Well No. <u>VZ 271</u> DNR Well ID No.
Facility ID	St. Plane ft. N. ft. E. S/C/N	Date Well Installed <u>12/20/2010</u> m m d d y y y y
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source <u>NW 1/4 of NE 1/4 of Sec 31, T. 23 N, R. 24 W</u>	Well Installed By: Name (first, last) and Firm <u>Landon Malzahn</u> <u>Geiss Soil & Samples LLC</u>
Distance from Waste/Source ft.	Enf. Stds. Apply <input type="checkbox"/>	
	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	

A. Protective pipe, top elevation 104.55 ft. MSL

B. Well casing, top elevation 100.95 ft. MSL

C. Land surface elevation 104.55 ft. MSL

D. Surface seal, bottom _____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
GP GM GC GW SW SP
SM SC ML MH CL CH
Bedrock

13. Sieve analysis performed? Yes No

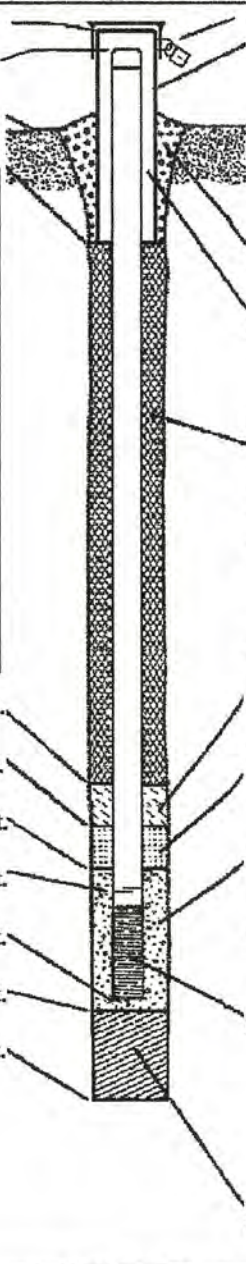
14. Drilling method used: Rotary 50
Hollow Stem Auger 41
Other

15. Drilling fluid used: Water 02 Air 01
Drilling Mud 03 None 99

16. Drilling additives used? Yes No

Describe _____

17. Source of water (attach analysis, if required):



1. Cap and lock? Yes No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel 04
Other

d. Additional protection? Yes No
If yes, describe: _____

3. Surface seal: Bentonite 30
Concrete 01
Other

4. Material between well casing and protective pipe:
Bentonite 30
Other

5. Annular space seal: a. Granular/Chipped Bentonite 33
b. _____ Lbs/gal mud weight... Bentonite-sand slurry 35
c. _____ Lbs/gal mud weight... Bentonite slurry 31
d. _____ % Bentonite... Bentonite-cement grout 50
e. _____ Ft³ volume added for any of the above
f. How installed: Tremie 01
Tremie pumped 02
Gravity 08

6. Bentonite seal: a. Bentonite granules 33
b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
c. _____ Other

7. Fine sand material: Manufacturer, product name & mesh size
a. #15 Red Flint
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. #40 Red Flint
b. Volume added _____ ft³

9. Well casing: Flush threaded PVC schedule 40 23
Flush threaded PVC schedule 80 24
Other

10. Screen material: PVC
a. Screen type: Factory cut 11
Continuous slot 01
Other

b. Manufacturer Monoflex
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None 14
Other

E. Bentonite seal, top _____ ft. MSL or 5 ft.

F. Fine sand, top _____ ft. MSL or 61 ft.

G. Filter pack, top _____ ft. MSL or 72 ft.

H. Screen joint, top _____ ft. MSL or 83 ft.

I. Well bottom _____ ft. MSL or 13 ft.

J. Filter pack, bottom _____ ft. MSL or 13 ft.

K. Borehole, bottom _____ ft. MSL or 13 ft.

L. Borehole, diameter 8.25 in.

M. O.D. well casing 2.40 in.

N. I.D. well casing 2.06 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Landon Malzahn Firm Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Miller Property	County Name Kewaunee	Well Name MW-3
Facility License, Permit or Monitoring Number	County Code 31	Wis. Unique Well Number VZ 271
		DNR Well ID Number _____

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 20 min.

4. Depth of well (from top of well casing) 11.2 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 14 gal.

7. Volume of water removed from well 16 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>1.85</u> ft.	<u>0.20</u> ft.
Date	b. <u>03/02/2011</u> m m d d y y y y	<u>03/21/2011</u> m m d d y y y y
Time	c. <u>09:10</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>7:20</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.

12. Sediment in well bottom 2 inches 0 inches

13. Water clarity

Before Development	After Development
Clear <input type="checkbox"/> 10	Clear <input checked="" type="checkbox"/> 20
Turbid <input checked="" type="checkbox"/> 15	Turbid <input type="checkbox"/> 25
(Describe) <u>soft</u>	(Describe) <u>well seal compromised new seal installed</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Chad Last Name: Fradette
Firm: Mach IV Engineering & Surveying LLC

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Thomas Last Name: Miller
Facility/Firm: Miller Property
Street: N2892 Church Rd
City/State/Zip: Kewaunee, WI 54216

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Chad M Fradette

Print Name: Chad M Fradette

Firm: Mach IV Engineering & Surveying LLC

Facility/Project Name <u>Miller Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-4</u>
Facility License, Permit or Monitoring No.	Local Grid Origin (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/>	Wis. Unique Well No. <u>VZ 272</u> DNR Well ID No.
Facility ID	Lat. _____ Long. _____ or _____	Date Well Installed <u>12/20/2010</u> m m d d y y y y
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source <u>NW1/4 of NE 1/4 of Sec. 31, T. 23 N. R. 24</u>	Well Installed By: Name (first, last) and Firm <u>Landon Malzahn</u> <u>Geiss Soil & Samples LLC</u>
Distance from Waste/Source _____ ft.	Enf. Stds. Apply <input type="checkbox"/>	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known

A. Protective pipe, top elevation <u>100.24</u> ft. MSL	1. Cap and lock? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
B. Well casing, top elevation <u>99.80</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>8</u> in. b. Length: <u>1</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/>
C. Land surface elevation <u>100.45</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom _____ ft. MSL or <u>0</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/>
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>	f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7. Fine sand material: Manufacturer, product name & mesh size a. <u>#15 Red Flint</u> b. Volume added _____ ft ³
Describe _____	8. Filter pack material: Manufacturer, product name & mesh size a. <u>#40 Red Flint</u> b. Volume added _____ ft ³
17. Source of water (attach analysis, if required): _____	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/>
E. Bentonite seal, top _____ ft. MSL or <u>5</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/>
F. Fine sand, top _____ ft. MSL or <u>4</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10</u> ft.
G. Filter pack, top _____ ft. MSL or <u>5</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input checked="" type="checkbox"/>
H. Screen joint, top _____ ft. MSL or <u>6</u> ft.	
I. Well bottom _____ ft. MSL or <u>16</u> ft.	
J. Filter pack, bottom _____ ft. MSL or <u>17</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>17</u> ft.	
L. Borehole, diameter <u>8.25</u> in.	
M. O.D. well casing <u>2.40</u> in.	
N. I.D. well casing <u>2.06</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature Landon Malzahn Firm Geiss Soil & Samples LLC

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Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Miller Property	County Name Kewaunee	Well Name MW-4
Facility License, Permit or Monitoring Number	County Code 31	Wis. Unique Well Number VZ 272
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method
- surged with bailer and bailed 41
 - surged with bailer and pumped 61
 - surged with block and bailed 42
 - surged with block and pumped 62
 - surged with block, bailed and pumped 70
 - compressed air 20
 - bailed only 10
 - pumped only 51
 - pumped slowly 50
 - Other _____

3. Time spent developing well 25 min.

4. Depth of well (from top of well casing) 14.5 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 1.7 gal.

7. Volume of water removed from well 17 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

17. Additional comments on development:

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>463</u> ft.	_____ ft.
Date	b. <u>03/02/2011</u>	<u>03/21/2011</u>
Time	c. <u>10:45</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>08:15</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>4</u> inches	<u>1</u> inches
13. Water clarity	Clear <input type="checkbox"/> 10 Turbid <input checked="" type="checkbox"/> 15 (Describe) <u>silty</u>	Clear <input type="checkbox"/> 20 Turbid <input checked="" type="checkbox"/> 25 (Describe) <u>silty</u>

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids _____ mg/l _____ mg/l

15. COD _____ mg/l _____ mg/l

16. Well developed by: Name (first, last) and Firm

First Name: Chad Last Name: Fradette
Firm: Mach IV Engineering & Surveying LLC

Name and Address of Facility Contact /Owner/Responsible Party

First Name: Thomas Last Name: Miller

Facility/Firm: Miller Property

Street: N2892 Church Rd

City/State/Zip: Kewaunee, WI 54216

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Chad M Fradette

Print Name: Chad M Fradette

Firm: Mach IV Engineering & Surveying LLC

Route to: Watershed/Wastewater Waste Management
 Remediation/Redevelopment Other

Facility/Project Name <u>Miller Property</u>	Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.	Well Name <u>MW-5</u>
Facility License, Permit or Monitoring No.	Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. _____ Long. _____ or _____	Wis. Unique Well No. <u>12275</u> DNR Well ID No. _____
Facility ID	St. Plane _____ ft. N. _____ ft. E. S/C/N	Date Well Installed <u>12/20/2010</u> m m d d y y v v y
Type of Well Well Code <u>11, MW</u>	Section Location of Waste/Source <u>NW 1/4 of NE 1/4 of Sec. 31, T. 23 N, R. 24 E W</u>	Well Installed By: Name (first, last) and Firm <u>Landon Malzahn Geiss Soil & Samples LLC</u>
Distance from Waste/Source _____ ft.	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known	
Enf. Stds. Apply <input type="checkbox"/>	Gov. Lot Number _____	

A. Protective pipe, top elevation 100.90 ft. MSL
 B. Well casing, top elevation 100.44 ft. MSL
 C. Land surface elevation 100.90 ft. MSL
 D. Surface seal, bottom _____ ft. MSL or 0 ft.

12. USCS classification of soil near screen:
 GP GM GC GW SW SP
 SM SC ML MH CL CH
 Bedrock

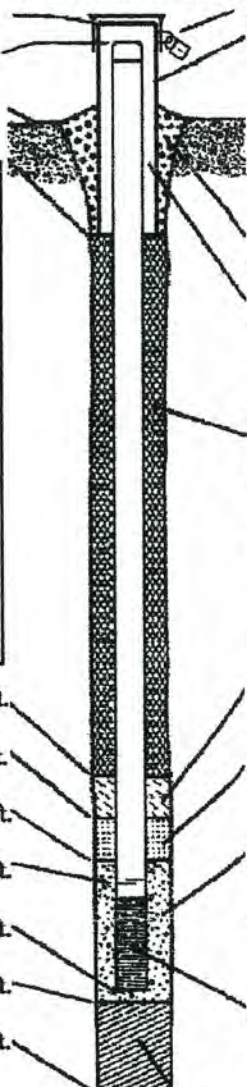
13. Sieve analysis performed? Yes No

14. Drilling method used: Rotary 50
 Hollow Stem Auger 41
 Other

15. Drilling fluid used: Water 02 Air 01
 Drilling Mud 03 None 99

16. Drilling additives used? Yes No
 Describe _____

17. Source of water (attach analysis, if required): _____



1. Cap and lock? Yes No
2. Protective cover pipe:
 a. Inside diameter: 8 in.
 b. Length: 1 ft.
 c. Material: Steel 04
 Other
- d. Additional protection? Yes No
 If yes, describe: _____
3. Surface seal: Bentonite 30
 Concrete 01
 Other
4. Material between well casing and protective pipe:
 Bentonite 30
 Other
5. Annular space seal: a. Granular/Chipped Bentonite 33
 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry 35
 c. _____ Lbs/gal mud weight ... Bentonite slurry 31
 d. _____ % Bentonite ... Bentonite-cement grout 50
 e. _____ Ft³ volume added for any of the above
 f. How installed: Tremie 01
 Tremie pumped 02
 Gravity 08
6. Bentonite seal: a. Bentonite granules 33
 b. 1/4 in. 3/8 in. 1/2 in. Bentonite chips 32
 c. _____ Other
7. Fine sand material: Manufacturer, product name & mesh size
 a. #15 Red Flint
 b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
 a. #40 Red Flint
 b. Volume added _____ ft³
9. Well casing: Flush threaded PVC schedule 40 23
 Flush threaded PVC schedule 80 24
 Other
10. Screen material: PVC
 a. Screen type: Factory cut 11
 Continuous slot 01
 Other
- b. Manufacturer Monoflex
 c. Slot size: 0.010 in.
 d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None 14
 Other

E. Bentonite seal, top _____ ft. MSL or 5 ft.
 F. Fine sand, top _____ ft. MSL or 3 ft.
 G. Filter pack, top _____ ft. MSL or 4 ft.
 H. Screen joint, top _____ ft. MSL or 5 ft.
 I. Well bottom _____ ft. MSL or 15 ft.
 J. Filter pack, bottom _____ ft. MSL or 15 ft.
 K. Borehole, bottom _____ ft. MSL or 15 ft.
 L. Borehole, diameter 8.25 in.
 M. O.D. well casing 2.40 in.
 N. I.D. well casing 2.06 in.

I hereby certify that the information on this form is true and correct to the best of my knowledge.
 Signature Landon Malzahn Firm Geiss Soil & Samples LLC

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route to: Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

Facility/Project Name Miller Property	County Name Kewaunee	Well Name MW-5
Facility License, Permit or Monitoring Number	County Code 31	Wis. Unique Well Number VZ 275
		DNR Well ID Number ---

1. Can this well be purged dry? Yes No

2. Well development method

- surged with bailer and bailed 41
- surged with bailer and pumped 61
- surged with block and bailed 42
- surged with block and pumped 62
- surged with block, bailed and pumped 70
- compressed air 20
- bailed only 10
- pumped only 51
- pumped slowly 50
- Other

3. Time spent developing well 40 min.

4. Depth of well (from top of well casing) 14.2 ft.

5. Inside diameter of well 2.06 in.

6. Volume of water in filter pack and well casing 18 gal.

7. Volume of water removed from well 18 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? Yes No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. <u>4.02</u> ft.	<u>3.52</u> ft.
Date	b. <u>03/02/2011</u>	<u>03/21/2011</u>
Time	c. <u>11:30</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.	<u>07:25</u> <input checked="" type="checkbox"/> a.m. <input type="checkbox"/> p.m.
12. Sediment in well bottom	<u>0</u> inches	<u>0</u> inches
13. Water clarity	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> 10 <input type="checkbox"/> Turbid <input type="checkbox"/> 15 (Describe)	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> 20 <input type="checkbox"/> Turbid <input type="checkbox"/> 25 (Describe)
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Thomas Last Name: Miller

Facility/Firm: Miller Property

Street: N2892 Church Rd

City/State/Zip: Kewaunee, WI 54216

I hereby certify that the above information is true and correct to the best of my knowledge.

Signature: Chad M Fradette

Print Name: Chad M Fradette

Firm: Mach IV Engineering & Surveying LLC

NOTE: See instructions for more information including a list of county codes and well type codes.

APPENDIX D

Laboratory Report

November 24, 2010

Chad Fradette
Mach IV Engineering & Surveying
2701 Larsen Road
Green Bay, WI 54303

RE: Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on November 18, 2010. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Steven Mleczko for
Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4039823001	GP1, S-4	Solid	11/18/10 10:15	11/18/10 15:50
4039823002	GP1, S-6	Solid	11/18/10 10:15	11/18/10 15:50
4039823003	GP1, S-9	Solid	11/18/10 10:15	11/18/10 15:50
4039823004	GP2, S-4	Solid	11/18/10 11:15	11/18/10 15:50
4039823005	GP2, S-6	Solid	11/18/10 11:15	11/18/10 15:50
4039823006	GP3, S-7	Solid	11/18/10 11:40	11/18/10 15:50
4039823007	GP5, S-8	Solid	11/18/10 12:30	11/18/10 15:50
4039823008	GP6, S-5	Solid	11/18/10 12:55	11/18/10 15:50
4039823009	GP8, S-5	Solid	11/18/10 13:30	11/18/10 15:50
4039823010	GP8, S-8	Solid	11/18/10 13:45	11/18/10 15:50
4039823011	GP9, S-6	Solid	11/18/10 14:15	11/18/10 15:50
4039823012	GP9, S-8	Solid	11/18/10 14:15	11/18/10 15:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4039823001	GP1, S-4	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823002	GP1, S-6	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823003	GP1, S-9	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823004	GP2, S-4	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823005	GP2, S-6	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823006	GP3, S-7	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823007	GP5, S-8	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823008	GP6, S-5	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823009	GP8, S-5	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823010	GP8, S-8	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823011	GP9, S-6	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G
4039823012	GP9, S-8	WI MOD GRO	PMS	10	PASI-G
		EPA 6010	DLB	1	PASI-G
		ASTM D2974-87	KAM	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Method: WI MOD GRO
Description: WIGRO GCV
Client: Mach IV Engineering
Date: November 24, 2010

General Information:

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

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with TPH GRO/PVOC WI ext. with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Method: EPA 6010
Description: 6010 MET ICP
Client: Mach IV Engineering
Date: November 24, 2010

General Information:

12 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3050 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Sample: GP1, S-4 **Lab ID: 4039823001** Collected: 11/18/10 10:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	10900	ug/kg	5810	2420	80	11/19/10 07:51	11/19/10 16:05	71-43-2	
Ethylbenzene	116000	ug/kg	5810	2420	80	11/19/10 07:51	11/19/10 16:05	100-41-4	
Gasoline Range Organics	5540	mg/kg	242	242	80	11/19/10 07:51	11/19/10 16:05		
Methyl-tert-butyl ether	<2000	ug/kg	4800	2000	80	11/19/10 07:51	11/19/10 16:05	1634-04-4	W
Toluene	164000	ug/kg	5810	2420	80	11/19/10 07:51	11/19/10 16:05	108-88-3	
1,2,4-Trimethylbenzene	200000	ug/kg	5810	2420	80	11/19/10 07:51	11/19/10 16:05	95-63-6	
1,3,5-Trimethylbenzene	73600	ug/kg	5810	2420	80	11/19/10 07:51	11/19/10 16:05	108-67-8	
m&p-Xylene	336000	ug/kg	11600	4850	80	11/19/10 07:51	11/19/10 16:05	179601-23-1	
o-Xylene	111000	ug/kg	5810	2420	80	11/19/10 07:51	11/19/10 16:05	95-47-6	
a,a,a-Trifluorotoluene (S)	101	%	80-120		80	11/19/10 07:51	11/19/10 16:05	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead	57.4	mg/kg	1.1	0.10	1	11/19/10 11:25	11/23/10 17:03	7439-92-1	
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Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	17.4	%	0.10	0.10	1		11/23/10 07:35		
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Sample: GP1, S-6 **Lab ID: 4039823002** Collected: 11/18/10 10:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<312	ug/kg	750	312	12.5	11/19/10 07:51	11/19/10 16:30	71-43-2	W
Ethylbenzene	3460	ug/kg	865	360	12.5	11/19/10 07:51	11/19/10 16:30	100-41-4	
Gasoline Range Organics	1420	mg/kg	36.0	36.0	12.5	11/19/10 07:51	11/19/10 16:30		
Methyl-tert-butyl ether	<312	ug/kg	750	312	12.5	11/19/10 07:51	11/19/10 16:30	1634-04-4	W
Toluene	443J	ug/kg	865	360	12.5	11/19/10 07:51	11/19/10 16:30	108-88-3	
1,2,4-Trimethylbenzene	22400	ug/kg	865	360	12.5	11/19/10 07:51	11/19/10 16:30	95-63-6	
1,3,5-Trimethylbenzene	15600	ug/kg	865	360	12.5	11/19/10 07:51	11/19/10 16:30	108-67-8	
m&p-Xylene	8990	ug/kg	1730	720	12.5	11/19/10 07:51	11/19/10 16:30	179601-23-1	
o-Xylene	2340	ug/kg	865	360	12.5	11/19/10 07:51	11/19/10 16:30	95-47-6	
a,a,a-Trifluorotoluene (S)	105	%	80-120		12.5	11/19/10 07:51	11/19/10 16:30	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead	6.0	mg/kg	1.0	0.097	1	11/19/10 11:25	11/23/10 17:07	7439-92-1	
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Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	13.3	%	0.10	0.10	1		11/23/10 07:35		
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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

Sample: GP1, S-9 **Lab ID: 4039823003** Collected: 11/18/10 10:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 15:14	71-43-2	W
Ethylbenzene	298	ug/kg	72.2	30.1	1	11/19/10 07:51	11/19/10 15:14	100-41-4	
Gasoline Range Organics	19.1	mg/kg	3.0	3.0	1	11/19/10 07:51	11/19/10 15:14		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 15:14	1634-04-4	W
Toluene	319	ug/kg	72.2	30.1	1	11/19/10 07:51	11/19/10 15:14	108-88-3	
1,2,4-Trimethylbenzene	554	ug/kg	72.2	30.1	1	11/19/10 07:51	11/19/10 15:14	95-63-6	
1,3,5-Trimethylbenzene	219	ug/kg	72.2	30.1	1	11/19/10 07:51	11/19/10 15:14	108-67-8	
m&p-Xylene	851	ug/kg	144	60.2	1	11/19/10 07:51	11/19/10 15:14	179601-23-1	
o-Xylene	263	ug/kg	72.2	30.1	1	11/19/10 07:51	11/19/10 15:14	95-47-6	
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/19/10 07:51	11/19/10 15:14	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 8.8 mg/kg 1.1 0.10 1 11/19/10 11:25 11/23/10 17:11 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 16.9 % 0.10 0.10 1 11/23/10 07:35

Sample: GP2, S-4 **Lab ID: 4039823004** Collected: 11/18/10 11:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<500	ug/kg	1200	500	20	11/19/10 07:51	11/19/10 16:56	71-43-2	W
Ethylbenzene	6900	ug/kg	1320	552	20	11/19/10 07:51	11/19/10 16:56	100-41-4	
Gasoline Range Organics	2250	mg/kg	55.2	55.2	20	11/19/10 07:51	11/19/10 16:56		
Methyl-tert-butyl ether	<500	ug/kg	1200	500	20	11/19/10 07:51	11/19/10 16:56	1634-04-4	W
Toluene	<500	ug/kg	1200	500	20	11/19/10 07:51	11/19/10 16:56	108-88-3	W
1,2,4-Trimethylbenzene	33700	ug/kg	1320	552	20	11/19/10 07:51	11/19/10 16:56	95-63-6	
1,3,5-Trimethylbenzene	24100	ug/kg	1320	552	20	11/19/10 07:51	11/19/10 16:56	108-67-8	
m&p-Xylene	52900	ug/kg	2650	1100	20	11/19/10 07:51	11/19/10 16:56	179601-23-1	
o-Xylene	10600	ug/kg	1320	552	20	11/19/10 07:51	11/19/10 16:56	95-47-6	
a,a,a-Trifluorotoluene (S)	105	%	80-120		20	11/19/10 07:51	11/19/10 16:56	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 5.7 mg/kg 0.98 0.095 1 11/19/10 11:25 11/23/10 17:15 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 9.3 % 0.10 0.10 1 11/23/10 07:35

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

Sample: GP2, S-6 **Lab ID: 4039823005** Collected: 11/18/10 11:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	100-41-4	W
Gasoline Range Organics	<2.9	mg/kg	2.9	2.9	1	11/19/10 07:51	11/19/10 14:48		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/19/10 07:51	11/19/10 14:48	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 14:48	95-47-6	W
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	11/19/10 07:51	11/19/10 14:48	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 5.7 mg/kg 1.2 0.11 1 11/22/10 09:30 11/23/10 08:51 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 14.5 % 0.10 0.10 1 11/23/10 07:35

Sample: GP3, S-7 **Lab ID: 4039823006** Collected: 11/18/10 11:40 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 12:15	71-43-2	W
Ethylbenzene	31.0J	ug/kg	70.8	29.5	1	11/19/10 07:51	11/19/10 12:15	100-41-4	
Gasoline Range Organics	3.6	mg/kg	2.9	2.9	1	11/19/10 07:51	11/19/10 12:15		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 12:15	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 12:15	108-88-3	W
1,2,4-Trimethylbenzene	92.3	ug/kg	70.8	29.5	1	11/19/10 07:51	11/19/10 12:15	95-63-6	
1,3,5-Trimethylbenzene	42.9J	ug/kg	70.8	29.5	1	11/19/10 07:51	11/19/10 12:15	108-67-8	
m&p-Xylene	97.4J	ug/kg	142	59.0	1	11/19/10 07:51	11/19/10 12:15	179601-23-1	
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 12:15	95-47-6	W
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/19/10 07:51	11/19/10 12:15	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 5.5 mg/kg 1.0 0.098 1 11/22/10 09:30 11/23/10 09:03 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 15.2 % 0.10 0.10 1 11/23/10 07:35

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Sample: GP5, S-8 **Lab ID: 4039823007** Collected: 11/18/10 12:30 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	100-41-4	W
Gasoline Range Organics	<2.9	mg/kg	2.9	2.9	1	11/19/10 07:51	11/19/10 19:03		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/19/10 07:51	11/19/10 19:03	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 19:03	95-47-6	W
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/19/10 07:51	11/19/10 19:03	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 4.1 mg/kg 1.0 0.098 1 11/22/10 09:30 11/23/10 09:07 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 12.6 % 0.10 0.10 1 11/23/10 07:35

Sample: GP6, S-5 **Lab ID: 4039823008** Collected: 11/18/10 12:55 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<125	ug/kg	300	125	5	11/19/10 07:51	11/19/10 17:21	71-43-2	W
Ethylbenzene	434	ug/kg	337	140	5	11/19/10 07:51	11/19/10 17:21	100-41-4	
Gasoline Range Organics	118	mg/kg	14.0	14.0	5	11/19/10 07:51	11/19/10 17:21		
Methyl-tert-butyl ether	<125	ug/kg	300	125	5	11/19/10 07:51	11/19/10 17:21	1634-04-4	W
Toluene	35700	ug/kg	337	140	5	11/19/10 07:51	11/19/10 17:21	108-88-3	
1,2,4-Trimethylbenzene	<125	ug/kg	300	125	5	11/19/10 07:51	11/19/10 17:21	95-63-6	W
1,3,5-Trimethylbenzene	188J	ug/kg	337	140	5	11/19/10 07:51	11/19/10 17:21	108-67-8	
m&p-Xylene	1320	ug/kg	674	281	5	11/19/10 07:51	11/19/10 17:21	179601-23-1	
o-Xylene	315J	ug/kg	337	140	5	11/19/10 07:51	11/19/10 17:21	95-47-6	
a,a,a-Trifluorotoluene (S)	109	%	80-120		5	11/19/10 07:51	11/19/10 17:21	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 5.4 mg/kg 0.99 0.095 1 11/22/10 09:30 11/23/10 09:11 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 11.0 % 0.10 0.10 1 11/23/10 07:35

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

Sample: GP8, S-5 **Lab ID: 4039823009** Collected: 11/18/10 13:30 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	274	ug/kg	68.1	28.4	1	11/19/10 07:51	11/19/10 12:41	71-43-2	
Ethylbenzene	253	ug/kg	68.1	28.4	1	11/19/10 07:51	11/19/10 12:41	100-41-4	
Gasoline Range Organics	6.1	mg/kg	2.8	2.8	1	11/19/10 07:51	11/19/10 12:41		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 12:41	1634-04-4	W
Toluene	69.6	ug/kg	68.1	28.4	1	11/19/10 07:51	11/19/10 12:41	108-88-3	
1,2,4-Trimethylbenzene	320	ug/kg	68.1	28.4	1	11/19/10 07:51	11/19/10 12:41	95-63-6	
1,3,5-Trimethylbenzene	113	ug/kg	68.1	28.4	1	11/19/10 07:51	11/19/10 12:41	108-67-8	
m&p-Xylene	417	ug/kg	136	56.8	1	11/19/10 07:51	11/19/10 12:41	179601-23-1	
o-Xylene	213	ug/kg	68.1	28.4	1	11/19/10 07:51	11/19/10 12:41	95-47-6	
a,a,a-Trifluorotoluene (S)	105	%	80-120		1	11/19/10 07:51	11/19/10 12:41	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead	7.9	mg/kg	1.1	0.10	1	11/22/10 09:30	11/23/10 09:23	7439-92-1	
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Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	11.9	%	0.10	0.10	1		11/23/10 07:36		
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Sample: GP8, S-8 **Lab ID: 4039823010** Collected: 11/18/10 13:45 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	100-41-4	W
Gasoline Range Organics	<3.0	mg/kg	3.0	3.0	1	11/19/10 07:51	11/19/10 13:06		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/19/10 07:51	11/19/10 13:06	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:06	95-47-6	W
a,a,a-Trifluorotoluene (S)	104	%	80-120		1	11/19/10 07:51	11/19/10 13:06	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead	2.7	mg/kg	1.2	0.12	1	11/22/10 09:30	11/23/10 09:27	7439-92-1	
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Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture	17.5	%	0.10	0.10	1		11/23/10 07:36		
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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

Sample: GP9, S-6 Lab ID: 4039823011 Collected: 11/18/10 14:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	100-41-4	W
Gasoline Range Organics	<2.8	mg/kg	2.8	2.8	1	11/19/10 07:51	11/19/10 13:32		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/19/10 07:51	11/19/10 13:32	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:32	95-47-6	W
a,a,a-Trifluorotoluene (S)	106	%	80-120		1	11/19/10 07:51	11/19/10 13:32	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 3.2 mg/kg 1.1 0.10 1 11/22/10 09:30 11/23/10 09:31 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 11.2 % 0.10 0.10 1 11/23/10 07:36

Sample: GP9, S-8 Lab ID: 4039823012 Collected: 11/18/10 14:15 Received: 11/18/10 15:50 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.									
Benzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	71-43-2	W
Ethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	100-41-4	W
Gasoline Range Organics	<3.0	mg/kg	3.0	3.0	1	11/19/10 07:51	11/19/10 13:57		
Methyl-tert-butyl ether	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	1634-04-4	W
Toluene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	108-88-3	W
1,2,4-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	95-63-6	W
1,3,5-Trimethylbenzene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	108-67-8	W
m&p-Xylene	<50.0	ug/kg	120	50.0	1	11/19/10 07:51	11/19/10 13:57	179601-23-1	W
o-Xylene	<25.0	ug/kg	60.0	25.0	1	11/19/10 07:51	11/19/10 13:57	95-47-6	W
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	11/19/10 07:51	11/19/10 13:57	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3050

Lead 6.5 mg/kg 1.1 0.11 1 11/22/10 09:30 11/23/10 09:35 7439-92-1

Percent Moisture Analytical Method: ASTM D2974-87

Percent Moisture 17.6 % 0.10 0.10 1 11/23/10 07:36

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

QC Batch: GCV/5930 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 4039823001, 4039823002, 4039823003, 4039823004, 4039823005, 4039823006, 4039823007, 4039823008, 4039823009, 4039823010, 4039823011, 4039823012

METHOD BLANK: 386673 Matrix: Solid
Associated Lab Samples: 4039823001, 4039823002, 4039823003, 4039823004, 4039823005, 4039823006, 4039823007, 4039823008, 4039823009, 4039823010, 4039823011, 4039823012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	60.0	11/19/10 08:51	
1,3,5-Trimethylbenzene	ug/kg	<25.0	60.0	11/19/10 08:51	
Benzene	ug/kg	<25.0	60.0	11/19/10 08:51	
Ethylbenzene	ug/kg	<25.0	60.0	11/19/10 08:51	
Gasoline Range Organics	mg/kg	<2.5	2.5	11/19/10 08:51	
m&p-Xylene	ug/kg	<50.0	120	11/19/10 08:51	
Methyl-tert-butyl ether	ug/kg	<25.0	60.0	11/19/10 08:51	
o-Xylene	ug/kg	<25.0	60.0	11/19/10 08:51	
Toluene	ug/kg	<25.0	60.0	11/19/10 08:51	
a,a,a-Trifluorotoluene (S)	%	104	80-120	11/19/10 08:51	

LABORATORY CONTROL SAMPLE & LCSD: 386674		386675								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	949	972	95	97	80-120	2	20	
1,3,5-Trimethylbenzene	ug/kg	1000	944	958	94	96	80-120	1	20	
Benzene	ug/kg	1000	911	920	91	92	80-120	.9	20	
Ethylbenzene	ug/kg	1000	942	961	94	96	80-120	2	20	
Gasoline Range Organics	mg/kg	10	10.6	10.6	106	106	80-120	.1	20	
m&p-Xylene	ug/kg	2000	1890	1930	95	97	80-120	2	20	
Methyl-tert-butyl ether	ug/kg	1000	931	949	93	95	80-120	2	20	
o-Xylene	ug/kg	1000	939	960	94	96	80-120	2	20	
Toluene	ug/kg	1000	930	943	93	94	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				104	104	80-120			

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

QC Batch: MPRP/4806 Analysis Method: EPA 6010

QC Batch Method: EPA 3050 Analysis Description: 6010 MET

Associated Lab Samples: 4039823001, 4039823002, 4039823003, 4039823004

METHOD BLANK: 386888 Matrix: Solid

Associated Lab Samples: 4039823001, 4039823002, 4039823003, 4039823004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	0.17J	1.0	11/23/10 15:29	

LABORATORY CONTROL SAMPLE: 386889

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	51.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 386890 386891

Parameter	Units	4039817008		386890		386891		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec				
Lead	mg/kg	1300	58.8	58.7	1580	1590	470	493	75-125	.8	20 P6

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

QC Batch: MPRP/4810 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 4039823005, 4039823006, 4039823007, 4039823008, 4039823009, 4039823010, 4039823011, 4039823012

METHOD BLANK: 387697 Matrix: Solid
Associated Lab Samples: 4039823005, 4039823006, 4039823007, 4039823008, 4039823009, 4039823010, 4039823011, 4039823012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	mg/kg	<0.097	1.0	11/23/10 08:43	

LABORATORY CONTROL SAMPLE: 387698

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	mg/kg	50	49.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 387699 387700

Parameter	Units	4039823005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	mg/kg	5.7	58.5	58.1	55.1	54.7	84	84	75-125	.7	20	

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4039823

QC Batch: PMST/4920 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 4039823001, 4039823002, 4039823003, 4039823004, 4039823005, 4039823006, 4039823007, 4039823008, 4039823009, 4039823010, 4039823011, 4039823012

SAMPLE DUPLICATE: 387762

Parameter	Units	4039857001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.2	7.2	.08	10	

QUALIFIERS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4039823

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

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

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

P6 Matrix spike recovery was outside laboratory control limits due to a parent sample concentration notably higher than the spike level.

W Non-detect results are reported on a wet weight basis.

March 28, 2011

Chad Fradette
Mach IV Engineering & Surveying
2701 Larsen Road
Green Bay, WI 54303

RE: Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4043586

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on March 21, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

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

Sincerely,



Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Page 1 of 18

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CERTIFICATIONS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
California Certification #: 09268CA
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888

New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4043586001	MW-1	Water	03/21/11 13:00	03/21/11 15:47
4043586002	MW-2	Water	03/21/11 12:30	03/21/11 15:47
4043586003	MW-3	Water	03/21/11 11:30	03/21/11 15:47
4043586004	MW-4	Water	03/21/11 11:45	03/21/11 15:47
4043586005	MW-5	Water	03/21/11 11:00	03/21/11 15:47
4043586006	POTABLE WELL-MILLER N2892	Water	03/21/11 12:00	03/21/11 15:47

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4043586001	MW-1	EPA 8260	JJB	64	PASI-G
4043586002	MW-2	EPA 8260	JJB	64	PASI-G
4043586003	MW-3	EPA 8260	JJB	64	PASI-G
4043586004	MW-4	EPA 8260	JJB	64	PASI-G
4043586005	MW-5	EPA 8260	JJB	64	PASI-G
4043586006	POTABLE WELL-MILLER N2892	EPA 8260	JJB	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Method: EPA 8260

Description: 8260 MSV

Client: Mach IV Engineering

Date: March 28, 2011

General Information:

6 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Duplicate Sample:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-1 **Lab ID: 4043586001** Collected: 03/21/11 13:00 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	81.5	ug/L	5.0	2.0	5		03/25/11 17:55	71-43-2	
Bromobenzene	<4.1	ug/L	5.0	4.1	5		03/25/11 17:55	108-86-1	
Bromochloromethane	<4.8	ug/L	5.0	4.8	5		03/25/11 17:55	74-97-5	
Bromodichloromethane	<2.8	ug/L	5.0	2.8	5		03/25/11 17:55	75-27-4	
Bromoform	<4.7	ug/L	5.0	4.7	5		03/25/11 17:55	75-25-2	
Bromomethane	<4.6	ug/L	5.0	4.6	5		03/25/11 17:55	74-83-9	
n-Butylbenzene	<4.6	ug/L	5.0	4.6	5		03/25/11 17:55	104-51-8	
sec-Butylbenzene	<4.4	ug/L	25.0	4.4	5		03/25/11 17:55	135-98-8	
tert-Butylbenzene	<4.8	ug/L	5.0	4.8	5		03/25/11 17:55	98-06-6	
Carbon tetrachloride	<2.4	ug/L	5.0	2.4	5		03/25/11 17:55	56-23-5	
Chlorobenzene	<2.0	ug/L	5.0	2.0	5		03/25/11 17:55	108-90-7	
Chloroethane	<4.8	ug/L	5.0	4.8	5		03/25/11 17:55	75-00-3	
Chloroform	<6.5	ug/L	25.0	6.5	5		03/25/11 17:55	67-66-3	
Chloromethane	<1.2	ug/L	5.0	1.2	5		03/25/11 17:55	74-87-3	
2-Chlorotoluene	<4.2	ug/L	5.0	4.2	5		03/25/11 17:55	95-49-8	
4-Chlorotoluene	<3.7	ug/L	5.0	3.7	5		03/25/11 17:55	106-43-4	
1,2-Dibromo-3-chloropropane	<8.4	ug/L	25.0	8.4	5		03/25/11 17:55	96-12-8	
Dibromochloromethane	<4.0	ug/L	5.0	4.0	5		03/25/11 17:55	124-48-1	
1,2-Dibromoethane (EDB)	<2.8	ug/L	5.0	2.8	5		03/25/11 17:55	106-93-4	
Dibromomethane	<3.0	ug/L	5.0	3.0	5		03/25/11 17:55	74-95-3	
1,2-Dichlorobenzene	<4.2	ug/L	5.0	4.2	5		03/25/11 17:55	95-50-1	
1,3-Dichlorobenzene	<4.4	ug/L	5.0	4.4	5		03/25/11 17:55	541-73-1	
1,4-Dichlorobenzene	<4.8	ug/L	5.0	4.8	5		03/25/11 17:55	106-46-7	
Dichlorodifluoromethane	<5.0	ug/L	5.0	5.0	5		03/25/11 17:55	75-71-8	
1,1-Dichloroethane	<3.8	ug/L	5.0	3.8	5		03/25/11 17:55	75-34-3	
1,2-Dichloroethane	<1.8	ug/L	5.0	1.8	5		03/25/11 17:55	107-06-2	
1,1-Dichloroethene	<2.8	ug/L	5.0	2.8	5		03/25/11 17:55	75-35-4	
cis-1,2-Dichloroethene	<4.2	ug/L	5.0	4.2	5		03/25/11 17:55	156-59-2	
trans-1,2-Dichloroethene	<4.4	ug/L	5.0	4.4	5		03/25/11 17:55	156-60-5	
1,2-Dichloropropane	<2.4	ug/L	5.0	2.4	5		03/25/11 17:55	78-87-5	
1,3-Dichloropropane	<3.0	ug/L	5.0	3.0	5		03/25/11 17:55	142-28-9	
2,2-Dichloropropane	<3.1	ug/L	5.0	3.1	5		03/25/11 17:55	594-20-7	
1,1-Dichloropropene	<3.8	ug/L	5.0	3.8	5		03/25/11 17:55	563-58-6	
cis-1,3-Dichloropropene	<1.0	ug/L	5.0	1.0	5		03/25/11 17:55	10061-01-5	
trans-1,3-Dichloropropene	<0.95	ug/L	5.0	0.95	5		03/25/11 17:55	10061-02-6	
Diisopropyl ether	<3.8	ug/L	5.0	3.8	5		03/25/11 17:55	108-20-3	
Ethylbenzene	134	ug/L	5.0	2.7	5		03/25/11 17:55	100-41-4	
Hexachloro-1,3-butadiene	<3.4	ug/L	25.0	3.4	5		03/25/11 17:55	87-68-3	
Isopropylbenzene (Cumene)	17.0	ug/L	5.0	3.0	5		03/25/11 17:55	98-82-8	
p-Isopropyltoluene	13.7	ug/L	5.0	3.4	5		03/25/11 17:55	99-87-6	
Methylene Chloride	<2.2	ug/L	5.0	2.2	5		03/25/11 17:55	75-09-2	
Methyl-tert-butyl ether	<3.0	ug/L	5.0	3.0	5		03/25/11 17:55	1634-04-4	
Naphthalene	32.1	ug/L	25.0	4.4	5		03/25/11 17:55	91-20-3	
n-Propylbenzene	27.9	ug/L	5.0	4.0	5		03/25/11 17:55	103-65-1	
Styrene	<4.3	ug/L	5.0	4.3	5		03/25/11 17:55	100-42-5	
1,1,1,2-Tetrachloroethane	<4.6	ug/L	5.0	4.6	5		03/25/11 17:55	630-20-6	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-1 **Lab ID: 4043586001** Collected: 03/21/11 13:00 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<1.0	ug/L	5.0	1.0	5		03/25/11 17:55	79-34-5	
Tetrachloroethene	<2.2	ug/L	5.0	2.2	5		03/25/11 17:55	127-18-4	
Toluene	546	ug/L	5.0	3.4	5		03/25/11 17:55	108-88-3	
1,2,3-Trichlorobenzene	<3.7	ug/L	5.0	3.7	5		03/25/11 17:55	87-61-6	
1,2,4-Trichlorobenzene	<4.8	ug/L	5.0	4.8	5		03/25/11 17:55	120-82-1	
1,1,1-Trichloroethane	<4.5	ug/L	5.0	4.5	5		03/25/11 17:55	71-55-6	
1,1,2-Trichloroethane	<2.1	ug/L	5.0	2.1	5		03/25/11 17:55	79-00-5	
Trichloroethene	<2.4	ug/L	5.0	2.4	5		03/25/11 17:55	79-01-6	
Trichlorofluoromethane	<4.0	ug/L	5.0	4.0	5		03/25/11 17:55	75-69-4	
1,2,3-Trichloropropane	<5.0	ug/L	5.0	5.0	5		03/25/11 17:55	96-18-4	
1,2,4-Trimethylbenzene	234	ug/L	5.0	4.8	5		03/25/11 17:55	95-63-6	
1,3,5-Trimethylbenzene	105	ug/L	5.0	4.2	5		03/25/11 17:55	108-67-8	
Vinyl chloride	<0.90	ug/L	5.0	0.90	5		03/25/11 17:55	75-01-4	
m&p-Xylene	485	ug/L	10.0	9.0	5		03/25/11 17:55	179601-23-1	
o-Xylene	211	ug/L	5.0	4.2	5		03/25/11 17:55	95-47-6	
4-Bromofluorobenzene (S)	86	%	69-130		5		03/25/11 17:55	460-00-4	
Dibromofluoromethane (S)	93	%	70-134		5		03/25/11 17:55	1868-53-7	
Toluene-d8 (S)	94	%	70-130		5		03/25/11 17:55	2037-26-5	

Sample: MW-2 **Lab ID: 4043586002** Collected: 03/21/11 12:30 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		03/25/11 16:01	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		03/25/11 16:01	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		03/25/11 16:01	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		03/25/11 16:01	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		03/25/11 16:01	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		03/25/11 16:01	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		03/25/11 16:01	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		03/25/11 16:01	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:01	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		03/25/11 16:01	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		03/25/11 16:01	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		03/25/11 16:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/25/11 16:01	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		03/25/11 16:01	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		03/25/11 16:01	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		03/25/11 16:01	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		03/25/11 16:01	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		03/25/11 16:01	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		03/25/11 16:01	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		03/25/11 16:01	74-95-3	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-2 **Lab ID: 4043586002** Collected: 03/21/11 12:30 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:01	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		03/25/11 16:01	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		03/25/11 16:01	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		03/25/11 16:01	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		03/25/11 16:01	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		03/25/11 16:01	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		03/25/11 16:01	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:01	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		03/25/11 16:01	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		03/25/11 16:01	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		03/25/11 16:01	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		03/25/11 16:01	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		03/25/11 16:01	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		03/25/11 16:01	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		03/25/11 16:01	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		03/25/11 16:01	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		03/25/11 16:01	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		03/25/11 16:01	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		03/25/11 16:01	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		03/25/11 16:01	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		03/25/11 16:01	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		03/25/11 16:01	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		03/25/11 16:01	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		03/25/11 16:01	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		03/25/11 16:01	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		03/25/11 16:01	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		03/25/11 16:01	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		03/25/11 16:01	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		03/25/11 16:01	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		03/25/11 16:01	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:01	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		03/25/11 16:01	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		03/25/11 16:01	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		03/25/11 16:01	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		03/25/11 16:01	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		03/25/11 16:01	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:01	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:01	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		03/25/11 16:01	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		03/25/11 16:01	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:01	95-47-6	
4-Bromofluorobenzene (S)	80 %		69-130		1		03/25/11 16:01	460-00-4	
Dibromofluoromethane (S)	99 %		70-134		1		03/25/11 16:01	1868-53-7	
Toluene-d8 (S)	92 %		70-130		1		03/25/11 16:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-3 **Lab ID: 4043586003** Collected: 03/21/11 11:30 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		03/25/11 16:24	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		03/25/11 16:24	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		03/25/11 16:24	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		03/25/11 16:24	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		03/25/11 16:24	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		03/25/11 16:24	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		03/25/11 16:24	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		03/25/11 16:24	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:24	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		03/25/11 16:24	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		03/25/11 16:24	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		03/25/11 16:24	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/25/11 16:24	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		03/25/11 16:24	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		03/25/11 16:24	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		03/25/11 16:24	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		03/25/11 16:24	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		03/25/11 16:24	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		03/25/11 16:24	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		03/25/11 16:24	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:24	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		03/25/11 16:24	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		03/25/11 16:24	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		03/25/11 16:24	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		03/25/11 16:24	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		03/25/11 16:24	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		03/25/11 16:24	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:24	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		03/25/11 16:24	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		03/25/11 16:24	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		03/25/11 16:24	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		03/25/11 16:24	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		03/25/11 16:24	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		03/25/11 16:24	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		03/25/11 16:24	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		03/25/11 16:24	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		03/25/11 16:24	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		03/25/11 16:24	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		03/25/11 16:24	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		03/25/11 16:24	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		03/25/11 16:24	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		03/25/11 16:24	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		03/25/11 16:24	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		03/25/11 16:24	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		03/25/11 16:24	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		03/25/11 16:24	630-20-6	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-3 Lab ID: 4043586003 Collected: 03/21/11 11:30 Received: 03/21/11 15:47 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		03/25/11 16:24	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		03/25/11 16:24	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		03/25/11 16:24	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		03/25/11 16:24	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:24	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		03/25/11 16:24	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		03/25/11 16:24	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		03/25/11 16:24	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		03/25/11 16:24	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		03/25/11 16:24	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:24	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:24	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		03/25/11 16:24	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		03/25/11 16:24	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:24	95-47-6	
4-Bromofluorobenzene (S)	82	%	69-130		1		03/25/11 16:24	460-00-4	
Dibromofluoromethane (S)	99	%	70-134		1		03/25/11 16:24	1868-53-7	
Toluene-d8 (S)	91	%	70-130		1		03/25/11 16:24	2037-26-5	

Sample: MW-4 Lab ID: 4043586004 Collected: 03/21/11 11:45 Received: 03/21/11 15:47 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		03/25/11 16:47	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		03/25/11 16:47	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		03/25/11 16:47	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		03/25/11 16:47	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		03/25/11 16:47	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		03/25/11 16:47	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		03/25/11 16:47	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		03/25/11 16:47	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:47	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		03/25/11 16:47	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		03/25/11 16:47	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		03/25/11 16:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/25/11 16:47	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		03/25/11 16:47	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		03/25/11 16:47	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		03/25/11 16:47	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		03/25/11 16:47	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		03/25/11 16:47	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		03/25/11 16:47	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		03/25/11 16:47	74-95-3	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-4 **Lab ID: 4043586004** Collected: 03/21/11 11:45 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:47	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		03/25/11 16:47	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		03/25/11 16:47	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		03/25/11 16:47	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		03/25/11 16:47	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		03/25/11 16:47	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		03/25/11 16:47	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:47	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		03/25/11 16:47	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		03/25/11 16:47	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		03/25/11 16:47	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		03/25/11 16:47	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		03/25/11 16:47	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		03/25/11 16:47	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		03/25/11 16:47	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		03/25/11 16:47	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		03/25/11 16:47	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		03/25/11 16:47	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		03/25/11 16:47	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		03/25/11 16:47	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		03/25/11 16:47	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		03/25/11 16:47	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		03/25/11 16:47	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		03/25/11 16:47	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		03/25/11 16:47	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		03/25/11 16:47	630-20-6	
1,1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		03/25/11 16:47	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		03/25/11 16:47	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		03/25/11 16:47	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		03/25/11 16:47	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:47	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		03/25/11 16:47	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		03/25/11 16:47	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		03/25/11 16:47	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		03/25/11 16:47	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		03/25/11 16:47	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 16:47	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:47	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		03/25/11 16:47	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		03/25/11 16:47	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		03/25/11 16:47	95-47-6	
4-Bromofluorobenzene (S)	82 %		69-130		1		03/25/11 16:47	460-00-4	
Dibromofluoromethane (S)	99 %		70-134		1		03/25/11 16:47	1868-53-7	
Toluene-d8 (S)	92 %		70-130		1		03/25/11 16:47	2037-26-5	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: MW-5 Lab ID: 4043586005 Collected: 03/21/11 11:00 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		03/25/11 17:09	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		03/25/11 17:09	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		03/25/11 17:09	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		03/25/11 17:09	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		03/25/11 17:09	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		03/25/11 17:09	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		03/25/11 17:09	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		03/25/11 17:09	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 17:09	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		03/25/11 17:09	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		03/25/11 17:09	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		03/25/11 17:09	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/25/11 17:09	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		03/25/11 17:09	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		03/25/11 17:09	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		03/25/11 17:09	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		03/25/11 17:09	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		03/25/11 17:09	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		03/25/11 17:09	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		03/25/11 17:09	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:09	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		03/25/11 17:09	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		03/25/11 17:09	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		03/25/11 17:09	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		03/25/11 17:09	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		03/25/11 17:09	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		03/25/11 17:09	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:09	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		03/25/11 17:09	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		03/25/11 17:09	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		03/25/11 17:09	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		03/25/11 17:09	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		03/25/11 17:09	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		03/25/11 17:09	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		03/25/11 17:09	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		03/25/11 17:09	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		03/25/11 17:09	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		03/25/11 17:09	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		03/25/11 17:09	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		03/25/11 17:09	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		03/25/11 17:09	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		03/25/11 17:09	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		03/25/11 17:09	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		03/25/11 17:09	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		03/25/11 17:09	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		03/25/11 17:09	630-20-6	

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4043586

Sample: MW-5 **Lab ID: 4043586005** Collected: 03/21/11 11:00 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		03/25/11 17:09	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		03/25/11 17:09	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		03/25/11 17:09	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		03/25/11 17:09	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 17:09	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		03/25/11 17:09	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		03/25/11 17:09	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		03/25/11 17:09	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		03/25/11 17:09	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		03/25/11 17:09	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 17:09	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:09	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		03/25/11 17:09	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		03/25/11 17:09	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:09	95-47-6	
4-Bromofluorobenzene (S)	81	%	69-130		1		03/25/11 17:09	460-00-4	
Dibromofluoromethane (S)	99	%	70-134		1		03/25/11 17:09	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		03/25/11 17:09	2037-26-5	

Sample: POTABLE WELL-MILLER N2892 **Lab ID: 4043586006** Collected: 03/21/11 12:00 Received: 03/21/11 15:47 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Benzene	<0.41	ug/L	1.0	0.41	1		03/25/11 17:32	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		03/25/11 17:32	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		03/25/11 17:32	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		03/25/11 17:32	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		03/25/11 17:32	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		03/25/11 17:32	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		03/25/11 17:32	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		03/25/11 17:32	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 17:32	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		03/25/11 17:32	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		03/25/11 17:32	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		03/25/11 17:32	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		03/25/11 17:32	67-66-3	
Chloromethane	<0.24	ug/L	1.0	0.24	1		03/25/11 17:32	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		03/25/11 17:32	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		03/25/11 17:32	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		03/25/11 17:32	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		03/25/11 17:32	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		03/25/11 17:32	106-93-4	

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

Sample: POTABLE WELL-MILLER **Lab ID:** 4043586006 Collected: 03/21/11 12:00 Received: 03/21/11 15:47 Matrix: Water
N2892

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Dibromomethane	<0.60	ug/L	1.0	0.60	1		03/25/11 17:32	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:32	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		03/25/11 17:32	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		03/25/11 17:32	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		03/25/11 17:32	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		03/25/11 17:32	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		03/25/11 17:32	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		03/25/11 17:32	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:32	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		03/25/11 17:32	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		03/25/11 17:32	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		03/25/11 17:32	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		03/25/11 17:32	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		03/25/11 17:32	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		03/25/11 17:32	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		03/25/11 17:32	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		03/25/11 17:32	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		03/25/11 17:32	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		03/25/11 17:32	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		03/25/11 17:32	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		03/25/11 17:32	99-87-6	
Methylene Chloride	0.52J	ug/L	1.0	0.43	1		03/25/11 17:32	75-09-2	Z3
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		03/25/11 17:32	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		03/25/11 17:32	91-20-3	
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		03/25/11 17:32	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		03/25/11 17:32	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		03/25/11 17:32	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		03/25/11 17:32	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		03/25/11 17:32	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		03/25/11 17:32	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		03/25/11 17:32	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 17:32	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		03/25/11 17:32	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		03/25/11 17:32	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		03/25/11 17:32	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		03/25/11 17:32	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		03/25/11 17:32	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		03/25/11 17:32	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:32	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		03/25/11 17:32	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		03/25/11 17:32	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		03/25/11 17:32	95-47-6	
4-Bromofluorobenzene (S)	81	%	69-130		1		03/25/11 17:32	460-00-4	
Dibromofluoromethane (S)	99	%	70-134		1		03/25/11 17:32	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		03/25/11 17:32	2037-26-5	

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

QC Batch: MSV/10742 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 4043586001, 4043586002, 4043586003, 4043586004, 4043586005, 4043586006

METHOD BLANK: 427144 Matrix: Water
 Associated Lab Samples: 4043586001, 4043586002, 4043586003, 4043586004, 4043586005, 4043586006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	03/25/11 08:48	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	03/25/11 08:48	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	03/25/11 08:48	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	03/25/11 08:48	
1,1-Dichloroethane	ug/L	<0.75	1.0	03/25/11 08:48	
1,1-Dichloroethene	ug/L	<0.57	1.0	03/25/11 08:48	
1,1-Dichloropropene	ug/L	<0.75	1.0	03/25/11 08:48	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	03/25/11 08:48	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	03/25/11 08:48	
1,2,4-Trichlorobenzene	ug/L	<0.97	1.0	03/25/11 08:48	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	03/25/11 08:48	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	03/25/11 08:48	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	03/25/11 08:48	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	03/25/11 08:48	
1,2-Dichloroethane	ug/L	<0.36	1.0	03/25/11 08:48	
1,2-Dichloropropane	ug/L	<0.49	1.0	03/25/11 08:48	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	03/25/11 08:48	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	03/25/11 08:48	
1,3-Dichloropropane	ug/L	<0.61	1.0	03/25/11 08:48	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	03/25/11 08:48	
2,2-Dichloropropane	ug/L	<0.62	1.0	03/25/11 08:48	
2-Chlorotoluene	ug/L	<0.85	1.0	03/25/11 08:48	
4-Chlorotoluene	ug/L	<0.74	1.0	03/25/11 08:48	
Benzene	ug/L	<0.41	1.0	03/25/11 08:48	
Bromobenzene	ug/L	<0.82	1.0	03/25/11 08:48	
Bromochloromethane	ug/L	<0.97	1.0	03/25/11 08:48	
Bromodichloromethane	ug/L	<0.56	1.0	03/25/11 08:48	
Bromoform	ug/L	<0.94	1.0	03/25/11 08:48	
Bromomethane	ug/L	<0.91	1.0	03/25/11 08:48	
Carbon tetrachloride	ug/L	<0.49	1.0	03/25/11 08:48	
Chlorobenzene	ug/L	<0.41	1.0	03/25/11 08:48	
Chloroethane	ug/L	<0.97	1.0	03/25/11 08:48	
Chloroform	ug/L	<1.3	5.0	03/25/11 08:48	
Chloromethane	ug/L	<0.24	1.0	03/25/11 08:48	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	03/25/11 08:48	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	03/25/11 08:48	
Dibromochloromethane	ug/L	<0.81	1.0	03/25/11 08:48	
Dibromomethane	ug/L	<0.60	1.0	03/25/11 08:48	
Dichlorodifluoromethane	ug/L	<0.99	1.0	03/25/11 08:48	
Diisopropyl ether	ug/L	<0.76	1.0	03/25/11 08:48	
Ethylbenzene	ug/L	<0.54	1.0	03/25/11 08:48	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	03/25/11 08:48	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	03/25/11 08:48	

Date: 03/28/2011 05:19 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

METHOD BLANK: 427144

Matrix: Water

Associated Lab Samples: 4043586001, 4043586002, 4043586003, 4043586004, 4043586005, 4043586006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	03/25/11 08:48	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	03/25/11 08:48	
Methylene Chloride	ug/L	<0.43	1.0	03/25/11 08:48	
n-Butylbenzene	ug/L	<0.93	1.0	03/25/11 08:48	
n-Propylbenzene	ug/L	<0.81	1.0	03/25/11 08:48	
Naphthalene	ug/L	<0.89	5.0	03/25/11 08:48	
o-Xylene	ug/L	<0.83	1.0	03/25/11 08:48	
p-Isopropyltoluene	ug/L	<0.67	1.0	03/25/11 08:48	
sec-Butylbenzene	ug/L	<0.89	5.0	03/25/11 08:48	
Styrene	ug/L	<0.86	1.0	03/25/11 08:48	
tert-Butylbenzene	ug/L	<0.97	1.0	03/25/11 08:48	
Tetrachloroethene	ug/L	<0.45	1.0	03/25/11 08:48	
Toluene	ug/L	<0.67	1.0	03/25/11 08:48	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	03/25/11 08:48	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	03/25/11 08:48	
Trichloroethene	ug/L	<0.48	1.0	03/25/11 08:48	
Trichlorofluoromethane	ug/L	<0.79	1.0	03/25/11 08:48	
Vinyl chloride	ug/L	<0.18	1.0	03/25/11 08:48	
4-Bromofluorobenzene (S)	%	82	69-130	03/25/11 08:48	
Dibromofluoromethane (S)	%	94	70-134	03/25/11 08:48	
Toluene-d8 (S)	%	92	70-130	03/25/11 08:48	

LABORATORY CONTROL SAMPLE & LCSD: 427145

427146

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	58.7	58.5	117	117	70-132	.3	20	
1,1,2,2-Tetrachloroethane	ug/L	50	49.9	50.8	100	102	63-130	2	20	
1,1,2-Trichloroethane	ug/L	50	51.4	52.8	103	106	70-130	3	20	
1,1-Dichloroethane	ug/L	50	60.3	60.6	121	121	70-132	.5	20	
1,1-Dichloroethene	ug/L	50	59.3	59.5	119	119	70-137	.4	20	
1,2-Dichloroethane	ug/L	50	56.0	56.7	112	113	70-130	1	20	
1,2-Dichloropropane	ug/L	50	54.9	54.2	110	108	70-130	1	20	
Benzene	ug/L	50	59.5	59.2	119	118	70-130	.5	20	
Bromodichloromethane	ug/L	50	53.8	54.2	108	108	70-131	.7	20	
Bromoform	ug/L	50	48.4	50.1	97	100	70-130	3	20	
Bromomethane	ug/L	50	72.2	73.9	144	148	53-160	2	20	
Carbon tetrachloride	ug/L	50	60.8	61.4	122	123	70-130	1	20	
Chlorobenzene	ug/L	50	54.2	55.0	108	110	70-130	1	20	
Chloroethane	ug/L	50	61.4	60.7	123	121	70-147	1	20	
Chloroform	ug/L	50	55.3	56.3	111	113	70-130	2	20	
Chloromethane	ug/L	50	59.9	60.5	120	121	41-137	1	20	
cis-1,2-Dichloroethene	ug/L	50	55.4	54.9	111	110	70-130	.8	20	
cis-1,3-Dichloropropene	ug/L	50	53.6	53.2	107	106	70-130	.8	20	
Dibromochloromethane	ug/L	50	50.9	50.9	102	102	70-130	.05	20	
Ethylbenzene	ug/L	50	56.4	56.2	113	112	70-130	.4	20	

Date: 03/28/2011 05:19 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4043586

LABORATORY CONTROL SAMPLE & LCSD: 427145		427146									
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers	
m&p-Xylene	ug/L	100	114	114	114	114	70-130	.08	20		
Methylene Chloride	ug/L	50	55.2	56.0	110	112	70-130	1	20		
o-Xylene	ug/L	50	55.5	55.8	111	112	70-130	.6	20		
Styrene	ug/L	50	55.9	56.3	112	113	70-130	.7	20		
Tetrachloroethene	ug/L	50	53.6	53.5	107	107	70-130	.2	20		
Toluene	ug/L	50	56.4	56.4	113	113	70-130	.03	20		
trans-1,2-Dichloroethene	ug/L	50	58.5	58.4	117	117	70-130	.2	20		
trans-1,3-Dichloropropene	ug/L	50	52.5	52.4	105	105	70-130	.1	20		
Trichloroethene	ug/L	50	56.8	57.1	114	114	70-130	.4	20		
Vinyl chloride	ug/L	50	55.3	56.4	111	113	47-131	2	20		
4-Bromofluorobenzene (S)	%				86	88	69-130				
Dibromofluoromethane (S)	%				93	96	70-134				
Toluene-d8 (S)	%				95	96	70-130				

QUALIFIERS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4043586

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

Z3 Methylene chloride is a common laboratory contaminant. Results for this analyte should be considered estimated unless the amount found in the sample is 3 to 5 times higher than that found in the method blank.

August 16, 2012

Chad Fradette
Mach IV Engineering & Surveying
211 N. Broadway
Suite 114
Green Bay, WI 54303

RE: Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on August 09, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Brian Basten

brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Carolina Certification #: 503

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

SAMPLE SUMMARY

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4065017001	E2711 KROK RD	Water	08/09/12 11:15	08/09/12 15:15
4065017002	MW-1	Water	08/09/12 14:30	08/09/12 15:15
4065017003	MW-2	Water	08/09/12 14:00	08/09/12 15:15
4065017004	MW-3	Water	08/09/12 11:45	08/09/12 15:15
4065017005	MW-4	Water	08/09/12 13:15	08/09/12 15:15
4065017006	MW-5	Water	08/09/12 12:15	08/09/12 15:15

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4065017001	E2711 KROK RD	EPA 6010	DLB	1	PASI-G
		EPA 8260	SMT	64	PASI-G
4065017002	MW-1	WI MOD GRO	LCM	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4065017003	MW-2	WI MOD GRO	LCM	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4065017004	MW-3	WI MOD GRO	LCM	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4065017005	MW-4	WI MOD GRO	LCM	9	PASI-G
		EPA 6010	DLB	1	PASI-G
4065017006	MW-5	WI MOD GRO	LCM	9	PASI-G
		EPA 6010	DLB	1	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

Method: WI MOD GRO
Description: WIGRO GCV
Client: Mach IV Engineering
Date: August 16, 2012

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

QC Batch: GCV/8832

A matrix spike and matrix spike duplicate (MS/MSD) were performed on the following sample(s): 4065008004

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

- MS (Lab ID: 652404)
 - Benzene
- MSD (Lab ID: 652405)
 - Benzene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

Method: EPA 6010
Description: 6010 MET ICP
Client: Mach IV Engineering
Date: August 16, 2012

General Information:

6 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Sample Preparation:

The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

PROJECT NARRATIVE

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Method: EPA 8260

Description: 8260 MSV

Client: Mach IV Engineering

Date: August 16, 2012

General Information:

1 sample was analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below.

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

REPORT OF LABORATORY ANALYSIS

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Sample: E2711 KROK RD Lab ID: 4065017001 Collected: 08/09/12 11:15 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Lead	<1.4	ug/L	7.5	1.4	1	08/12/12 17:50	08/13/12 20:49	7439-92-1	
8260 MSV		Analytical Method: EPA 8260							
Benzene	<0.41	ug/L	1.0	0.41	1		08/14/12 19:15	71-43-2	
Bromobenzene	<0.82	ug/L	1.0	0.82	1		08/14/12 19:15	108-86-1	
Bromochloromethane	<0.97	ug/L	1.0	0.97	1		08/14/12 19:15	74-97-5	
Bromodichloromethane	<0.56	ug/L	1.0	0.56	1		08/14/12 19:15	75-27-4	
Bromoform	<0.94	ug/L	1.0	0.94	1		08/14/12 19:15	75-25-2	
Bromomethane	<0.91	ug/L	1.0	0.91	1		08/14/12 19:15	74-83-9	
n-Butylbenzene	<0.93	ug/L	1.0	0.93	1		08/14/12 19:15	104-51-8	
sec-Butylbenzene	<0.89	ug/L	5.0	0.89	1		08/14/12 19:15	135-98-8	
tert-Butylbenzene	<0.97	ug/L	1.0	0.97	1		08/14/12 19:15	98-06-6	
Carbon tetrachloride	<0.49	ug/L	1.0	0.49	1		08/14/12 19:15	56-23-5	
Chlorobenzene	<0.41	ug/L	1.0	0.41	1		08/14/12 19:15	108-90-7	
Chloroethane	<0.97	ug/L	1.0	0.97	1		08/14/12 19:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		08/14/12 19:15	67-66-3	
Chloromethane	0.80J	ug/L	1.0	0.24	1		08/14/12 19:15	74-87-3	
2-Chlorotoluene	<0.85	ug/L	1.0	0.85	1		08/14/12 19:15	95-49-8	
4-Chlorotoluene	<0.74	ug/L	1.0	0.74	1		08/14/12 19:15	106-43-4	
1,2-Dibromo-3-chloropropane	<1.7	ug/L	5.0	1.7	1		08/14/12 19:15	96-12-8	
Dibromochloromethane	<0.81	ug/L	1.0	0.81	1		08/14/12 19:15	124-48-1	
1,2-Dibromoethane (EDB)	<0.56	ug/L	1.0	0.56	1		08/14/12 19:15	106-93-4	
Dibromomethane	<0.60	ug/L	1.0	0.60	1		08/14/12 19:15	74-95-3	
1,2-Dichlorobenzene	<0.83	ug/L	1.0	0.83	1		08/14/12 19:15	95-50-1	
1,3-Dichlorobenzene	<0.87	ug/L	1.0	0.87	1		08/14/12 19:15	541-73-1	
1,4-Dichlorobenzene	<0.95	ug/L	1.0	0.95	1		08/14/12 19:15	106-46-7	
Dichlorodifluoromethane	<0.99	ug/L	1.0	0.99	1		08/14/12 19:15	75-71-8	
1,1-Dichloroethane	<0.75	ug/L	1.0	0.75	1		08/14/12 19:15	75-34-3	
1,2-Dichloroethane	<0.36	ug/L	1.0	0.36	1		08/14/12 19:15	107-06-2	
1,1-Dichloroethene	<0.57	ug/L	1.0	0.57	1		08/14/12 19:15	75-35-4	
cis-1,2-Dichloroethene	<0.83	ug/L	1.0	0.83	1		08/14/12 19:15	156-59-2	
trans-1,2-Dichloroethene	<0.89	ug/L	1.0	0.89	1		08/14/12 19:15	156-60-5	
1,2-Dichloropropane	<0.49	ug/L	1.0	0.49	1		08/14/12 19:15	78-87-5	
1,3-Dichloropropane	<0.61	ug/L	1.0	0.61	1		08/14/12 19:15	142-28-9	
2,2-Dichloropropane	<0.62	ug/L	1.0	0.62	1		08/14/12 19:15	594-20-7	
1,1-Dichloropropene	<0.75	ug/L	1.0	0.75	1		08/14/12 19:15	563-58-6	
cis-1,3-Dichloropropene	<0.20	ug/L	1.0	0.20	1		08/14/12 19:15	10061-01-5	
trans-1,3-Dichloropropene	<0.19	ug/L	1.0	0.19	1		08/14/12 19:15	10061-02-6	
Diisopropyl ether	<0.76	ug/L	1.0	0.76	1		08/14/12 19:15	108-20-3	
Ethylbenzene	<0.54	ug/L	1.0	0.54	1		08/14/12 19:15	100-41-4	
Hexachloro-1,3-butadiene	<0.67	ug/L	5.0	0.67	1		08/14/12 19:15	87-68-3	
Isopropylbenzene (Cumene)	<0.59	ug/L	1.0	0.59	1		08/14/12 19:15	98-82-8	
p-Isopropyltoluene	<0.67	ug/L	1.0	0.67	1		08/14/12 19:15	99-87-6	
Methylene Chloride	<0.43	ug/L	1.0	0.43	1		08/14/12 19:15	75-09-2	
Methyl-tert-butyl ether	<0.61	ug/L	1.0	0.61	1		08/14/12 19:15	1634-04-4	
Naphthalene	<0.89	ug/L	5.0	0.89	1		08/14/12 19:15	91-20-3	

Date: 08/16/2012 02:50 PM

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

Sample: E2711 KROK RD **Lab ID: 4065017001** Collected: 08/09/12 11:15 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
n-Propylbenzene	<0.81	ug/L	1.0	0.81	1		08/14/12 19:15	103-65-1	
Styrene	<0.86	ug/L	1.0	0.86	1		08/14/12 19:15	100-42-5	
1,1,1,2-Tetrachloroethane	<0.92	ug/L	1.0	0.92	1		08/14/12 19:15	630-20-6	
1,1,2,2-Tetrachloroethane	<0.20	ug/L	1.0	0.20	1		08/14/12 19:15	79-34-5	
Tetrachloroethene	<0.45	ug/L	1.0	0.45	1		08/14/12 19:15	127-18-4	
Toluene	<0.67	ug/L	1.0	0.67	1		08/14/12 19:15	108-88-3	
1,2,3-Trichlorobenzene	<0.74	ug/L	1.0	0.74	1		08/14/12 19:15	87-61-6	
1,2,4-Trichlorobenzene	<0.97	ug/L	5.0	0.97	1		08/14/12 19:15	120-82-1	
1,1,1-Trichloroethane	<0.90	ug/L	1.0	0.90	1		08/14/12 19:15	71-55-6	
1,1,2-Trichloroethane	<0.42	ug/L	1.0	0.42	1		08/14/12 19:15	79-00-5	
Trichloroethene	<0.48	ug/L	1.0	0.48	1		08/14/12 19:15	79-01-6	
Trichlorofluoromethane	<0.79	ug/L	1.0	0.79	1		08/14/12 19:15	75-69-4	
1,2,3-Trichloropropane	<0.99	ug/L	1.0	0.99	1		08/14/12 19:15	96-18-4	
1,2,4-Trimethylbenzene	<0.97	ug/L	1.0	0.97	1		08/14/12 19:15	95-63-6	
1,3,5-Trimethylbenzene	<0.83	ug/L	1.0	0.83	1		08/14/12 19:15	108-67-8	
Vinyl chloride	<0.18	ug/L	1.0	0.18	1		08/14/12 19:15	75-01-4	
m&p-Xylene	<1.8	ug/L	2.0	1.8	1		08/14/12 19:15	179601-23-1	
o-Xylene	<0.83	ug/L	1.0	0.83	1		08/14/12 19:15	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87 %		43-137		1		08/14/12 19:15	460-00-4	
Dibromofluoromethane (S)	95 %		70-130		1		08/14/12 19:15	1868-53-7	
Toluene-d8 (S)	102 %		55-137		1		08/14/12 19:15	2037-26-5	

Sample: MW-1 **Lab ID: 4065017002** Collected: 08/09/12 14:30 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	134	ug/L	2.0	0.78	2		08/10/12 12:57	71-43-2	
Ethylbenzene	193	ug/L	2.0	0.83	2		08/10/12 12:57	100-41-4	
Methyl-tert-butyl ether	1.5J	ug/L	2.0	0.76	2		08/10/12 12:57	1634-04-4	
Naphthalene	33.0	ug/L	2.0	0.81	2		08/10/12 12:57	91-20-3	
Toluene	134	ug/L	2.0	0.83	2		08/10/12 12:57	108-88-3	
1,2,4-Trimethylbenzene	77.1	ug/L	2.0	0.86	2		08/10/12 12:57	95-63-6	
1,3,5-Trimethylbenzene	50.6	ug/L	2.0	0.79	2		08/10/12 12:57	108-67-8	
Xylene (Total)	105	ug/L	6.0	2.5	2		08/10/12 12:57	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	105 %		80-120		2		08/10/12 12:57	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	<1.4	ug/L	7.5	1.4	1	08/12/12 17:50	08/13/12 20:55	7439-92-1	

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

Sample: MW-2 Lab ID: 4065017003 Collected: 08/09/12 14:00 Received: 08/09/12 15:15 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		08/13/12 09:53	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/13/12 09:53	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/13/12 09:53	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		08/13/12 09:53	91-20-3	
Toluene	0.81J	ug/L	1.0	0.42	1		08/13/12 09:53	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/13/12 09:53	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/13/12 09:53	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		08/13/12 09:53	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1		08/13/12 09:53	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	<1.4	ug/L	7.5	1.4	1	08/12/12 17:50	08/13/12 20:57	7439-92-1	

Sample: MW-3 Lab ID: 4065017004 Collected: 08/09/12 11:45 Received: 08/09/12 15:15 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		08/10/12 11:39	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/10/12 11:39	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/10/12 11:39	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		08/10/12 11:39	91-20-3	
Toluene	1.9	ug/L	1.0	0.42	1		08/10/12 11:39	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/10/12 11:39	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/10/12 11:39	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		08/10/12 11:39	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	103 %		80-120		1		08/10/12 11:39	98-08-8	
6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Lead	<1.4	ug/L	7.5	1.4	1	08/12/12 17:50	08/13/12 20:59	7439-92-1	

Sample: MW-4 Lab ID: 4065017005 Collected: 08/09/12 13:15 Received: 08/09/12 15:15 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		08/10/12 12:05	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/10/12 12:05	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/10/12 12:05	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		08/10/12 12:05	91-20-3	

ANALYTICAL RESULTS

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Sample: MW-4 **Lab ID: 4065017005** Collected: 08/09/12 13:15 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Toluene	0.70J	ug/L	1.0	0.42	1		08/10/12 12:05	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/10/12 12:05	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/10/12 12:05	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		08/10/12 12:05	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		08/10/12 12:05	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010

Lead **<1.4** ug/L 7.5 1.4 1 08/12/12 17:50 08/13/12 21:01 7439-92-1

Sample: MW-5 **Lab ID: 4065017006** Collected: 08/09/12 12:15 Received: 08/09/12 15:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		08/10/12 12:31	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		08/10/12 12:31	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		08/10/12 12:31	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		08/10/12 12:31	91-20-3	
Toluene	0.61J	ug/L	1.0	0.42	1		08/10/12 12:31	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		08/10/12 12:31	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		08/10/12 12:31	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		08/10/12 12:31	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/10/12 12:31	98-08-8	

6010 MET ICP Analytical Method: EPA 6010 Preparation Method: EPA 3010

Lead **<1.4** ug/L 7.5 1.4 1 08/12/12 17:50 08/13/12 21:03 7439-92-1

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

QC Batch: GCV/8832 Analysis Method: WI MOD GRO
 QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
 Associated Lab Samples: 4065017002, 4065017003, 4065017004, 4065017005, 4065017006

METHOD BLANK: 652277 Matrix: Water
 Associated Lab Samples: 4065017002, 4065017003, 4065017004, 4065017005, 4065017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	08/10/12 09:00	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	08/10/12 09:00	
Benzene	ug/L	<0.39	1.0	08/10/12 09:00	
Ethylbenzene	ug/L	<0.41	1.0	08/10/12 09:00	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	08/10/12 09:00	
Naphthalene	ug/L	<0.40	1.0	08/10/12 09:00	
Toluene	ug/L	<0.42	1.0	08/10/12 09:00	
Xylene (Total)	ug/L	<1.3	3.0	08/10/12 09:00	
a,a,a-Trifluorotoluene (S)	%	101	80-120	08/10/12 09:00	

LABORATORY CONTROL SAMPLE & LCSD: 652278 652279

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	19.9	19.7	99	98	80-120	1	20	
1,3,5-Trimethylbenzene	ug/L	20	20.0	19.9	100	100	80-120	0	20	
Benzene	ug/L	20	20.9	21.0	105	105	80-120	0	20	
Ethylbenzene	ug/L	20	20.1	20.1	101	100	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.4	19.5	97	98	80-120	0	20	
Naphthalene	ug/L	20	18.4	18.3	92	92	80-120	1	20	
Toluene	ug/L	20	20.4	20.4	102	102	80-120	0	20	
Xylene (Total)	ug/L	60	60.2	60.3	100	100	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				100	100	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 652404 652405

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4065008004 Result	Spike Conc.	Spike Conc.	MS Result						
1,2,4-Trimethylbenzene	ug/L	200	500	500	729	739	106	108	10-200	1	20
1,3,5-Trimethylbenzene	ug/L	64.7	500	500	586	590	104	105	56-169	1	20
Benzene	ug/L	8220	500	500	9350	9300	226	217	33-173	1	20 M1
Ethylbenzene	ug/L	428	500	500	974	973	109	109	49-158	0	20
Methyl-tert-butyl ether	ug/L	436	500	500	912	884	95	90	80-130	3	20
Naphthalene	ug/L	49.5	500	500	487	489	87	88	67-141	0	20
Toluene	ug/L	40.9	500	500	558	547	103	101	79-132	2	20
Xylene (Total)	ug/L	347	1500	1500	1890	1880	103	102	42-173	1	20
a,a,a-Trifluorotoluene (S)	%						96	94	80-120		

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

QC Batch: MPRP/7332 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 4065017001, 4065017002, 4065017003, 4065017004, 4065017005, 4065017006

METHOD BLANK: 653595 Matrix: Water
Associated Lab Samples: 4065017001, 4065017002, 4065017003, 4065017004, 4065017005, 4065017006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.4	7.5	08/13/12 20:02	

LABORATORY CONTROL SAMPLE: 653596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	100	98.3	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 653597 653598

Parameter	Units	4064989001		MS		MSD		% Rec		Max		Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Lead	ug/L	3.9J	100	100	95.4	95.0	91	91	75-125	0	20	

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

QC Batch:	MSV/16241	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	4065017001		

METHOD BLANK: 653573 Matrix: Water

Associated Lab Samples: 4065017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	08/14/12 17:20	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	08/14/12 17:20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	08/14/12 17:20	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	08/14/12 17:20	
1,1-Dichloroethane	ug/L	<0.75	1.0	08/14/12 17:20	
1,1-Dichloroethene	ug/L	<0.57	1.0	08/14/12 17:20	
1,1-Dichloropropene	ug/L	<0.75	1.0	08/14/12 17:20	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	08/14/12 17:20	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	08/14/12 17:20	
1,2,4-Trichlorobenzene	ug/L	<0.97	5.0	08/14/12 17:20	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	08/14/12 17:20	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	08/14/12 17:20	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	08/14/12 17:20	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	08/14/12 17:20	
1,2-Dichloroethane	ug/L	<0.36	1.0	08/14/12 17:20	
1,2-Dichloropropane	ug/L	<0.49	1.0	08/14/12 17:20	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	08/14/12 17:20	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	08/14/12 17:20	
1,3-Dichloropropane	ug/L	<0.61	1.0	08/14/12 17:20	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	08/14/12 17:20	
2,2-Dichloropropane	ug/L	<0.62	1.0	08/14/12 17:20	
2-Chlorotoluene	ug/L	<0.85	1.0	08/14/12 17:20	
4-Chlorotoluene	ug/L	<0.74	1.0	08/14/12 17:20	
Benzene	ug/L	<0.41	1.0	08/14/12 17:20	
Bromobenzene	ug/L	<0.82	1.0	08/14/12 17:20	
Bromochloromethane	ug/L	<0.97	1.0	08/14/12 17:20	
Bromodichloromethane	ug/L	<0.56	1.0	08/14/12 17:20	
Bromoform	ug/L	<0.94	1.0	08/14/12 17:20	
Bromomethane	ug/L	<0.91	1.0	08/14/12 17:20	
Carbon tetrachloride	ug/L	<0.49	1.0	08/14/12 17:20	
Chlorobenzene	ug/L	<0.41	1.0	08/14/12 17:20	
Chloroethane	ug/L	<0.97	1.0	08/14/12 17:20	
Chloroform	ug/L	<1.3	5.0	08/14/12 17:20	
Chloromethane	ug/L	<0.24	1.0	08/14/12 17:20	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	08/14/12 17:20	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	08/14/12 17:20	
Dibromochloromethane	ug/L	<0.81	1.0	08/14/12 17:20	
Dibromomethane	ug/L	<0.60	1.0	08/14/12 17:20	
Dichlorodifluoromethane	ug/L	<0.99	1.0	08/14/12 17:20	
Diisopropyl ether	ug/L	<0.76	1.0	08/14/12 17:20	
Ethylbenzene	ug/L	<0.54	1.0	08/14/12 17:20	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	08/14/12 17:20	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	08/14/12 17:20	

Date: 08/16/2012 02:50 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

METHOD BLANK: 653573

Matrix: Water

Associated Lab Samples: 4065017001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	08/14/12 17:20	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	08/14/12 17:20	
Methylene Chloride	ug/L	<0.43	1.0	08/14/12 17:20	
n-Butylbenzene	ug/L	<0.93	1.0	08/14/12 17:20	
n-Propylbenzene	ug/L	<0.81	1.0	08/14/12 17:20	
Naphthalene	ug/L	<0.89	5.0	08/14/12 17:20	
o-Xylene	ug/L	<0.83	1.0	08/14/12 17:20	
p-Isopropyltoluene	ug/L	<0.67	1.0	08/14/12 17:20	
sec-Butylbenzene	ug/L	<0.89	5.0	08/14/12 17:20	
Styrene	ug/L	<0.86	1.0	08/14/12 17:20	
tert-Butylbenzene	ug/L	<0.97	1.0	08/14/12 17:20	
Tetrachloroethene	ug/L	<0.45	1.0	08/14/12 17:20	
Toluene	ug/L	<0.67	1.0	08/14/12 17:20	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	08/14/12 17:20	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	08/14/12 17:20	
Trichloroethene	ug/L	<0.48	1.0	08/14/12 17:20	
Trichlorofluoromethane	ug/L	<0.79	1.0	08/14/12 17:20	
Vinyl chloride	ug/L	<0.18	1.0	08/14/12 17:20	
4-Bromofluorobenzene (S)	%	88	43-137	08/14/12 17:20	
Dibromofluoromethane (S)	%	92	70-130	08/14/12 17:20	
Toluene-d8 (S)	%	103	55-137	08/14/12 17:20	

LABORATORY CONTROL SAMPLE & LCSD: 653574

653575

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	39.2	49.8	78	100	70-136	24	20	D6
1,1,2,2-Tetrachloroethane	ug/L	50	41.1	52.5	82	105	70-130	24	20	D6
1,1,2-Trichloroethane	ug/L	50	42.7	54.4	85	109	70-130	24	20	D6
1,1-Dichloroethane	ug/L	50	40.7	52.0	81	104	70-146	25	20	D6
1,1-Dichloroethene	ug/L	50	41.4	51.0	83	102	70-130	21	20	D6
1,2,4-Trichlorobenzene	ug/L	50	38.9	51.4	78	103	70-130	28	20	D6
1,2-Dibromo-3-chloropropane	ug/L	50	33.0	41.7	66	83	46-150	23	20	D6
1,2-Dibromoethane (EDB)	ug/L	50	42.7	54.9	85	110	70-130	25	20	D6
1,2-Dichlorobenzene	ug/L	50	39.6	51.0	79	102	70-130	25	20	D6
1,2-Dichloroethane	ug/L	50	42.4	52.6	85	105	70-144	21	20	D6
1,2-Dichloropropane	ug/L	50	41.8	51.7	84	103	70-136	21	20	D6
1,3-Dichlorobenzene	ug/L	50	38.2	48.8	76	98	70-130	24	20	D6
1,4-Dichlorobenzene	ug/L	50	39.5	49.8	79	100	70-130	23	20	D6
Benzene	ug/L	50	44.8	55.6	90	111	70-137	21	20	D6
Bromodichloromethane	ug/L	50	41.1	52.3	82	105	70-133	24	20	D6
Bromoform	ug/L	50	39.2	50.1	78	100	59-130	25	20	D6
Bromomethane	ug/L	50	29.5	38.7	59	77	41-148	27	20	D6
Carbon tetrachloride	ug/L	50	42.2	52.7	84	105	70-154	22	20	D6
Chlorobenzene	ug/L	50	42.2	52.2	84	104	70-130	21	20	D6
Chloroethane	ug/L	50	39.5	48.8	79	98	70-139	21	20	D6

QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

LABORATORY CONTROL SAMPLE & LCSD: 653574		653575								
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	42.9	54.5	86	109	70-130	24	20	D6
Chloromethane	ug/L	50	30.0	37.6	60	75	45-154	23	20	D6
cis-1,2-Dichloroethene	ug/L	50	43.0	54.5	86	109	70-130	23	20	D6
cis-1,3-Dichloropropene	ug/L	50	35.1	44.3	70	89	70-136	23	20	D6
Dibromochloromethane	ug/L	50	42.0	52.7	84	105	70-130	22	20	D6
Dichlorodifluoromethane	ug/L	50	22.7	27.9	45	56	20-157	20	20	
Ethylbenzene	ug/L	50	44.3	55.4	89	111	70-130	22	20	D6
Isopropylbenzene (Cumene)	ug/L	50	44.2	55.5	88	111	70-130	23	20	D6
m&p-Xylene	ug/L	100	90.3	114	90	114	70-130	23	20	D6
Methyl-tert-butyl ether	ug/L	50	38.3	47.7	77	95	59-141	22	20	D6
Methylene Chloride	ug/L	50	43.6	54.5	87	109	70-130	22	20	D6
o-Xylene	ug/L	50	45.2	56.9	90	114	70-130	23	20	D6
Styrene	ug/L	50	39.7	50.1	79	100	70-130	23	20	D6
Tetrachloroethene	ug/L	50	39.9	48.7	80	97	70-130	20	20	
Toluene	ug/L	50	45.2	57.1	90	114	70-130	23	20	D6
trans-1,2-Dichloroethene	ug/L	50	42.7	53.5	85	107	70-130	22	20	D6
trans-1,3-Dichloropropene	ug/L	50	37.2	46.5	74	93	55-135	22	20	D6
Trichloroethene	ug/L	50	44.3	54.7	89	109	70-130	21	20	D6
Trichlorofluoromethane	ug/L	50	41.7	51.0	83	102	50-150	20	20	
Vinyl chloride	ug/L	50	35.7	44.9	71	90	61-143	23	20	D6
4-Bromofluorobenzene (S)	%				98	98	43-137			
Dibromofluoromethane (S)	%				93	95	70-130			
Toluene-d8 (S)	%				104	104	55-137			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 654786		654787											
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		4065017001 Result	Spike Conc.	Spike Conc.	MSD Result								
1,1,1-Trichloroethane	ug/L	<0.90	50	50	52.1	50.4	104	101	70-136	3	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	53.1	52.8	106	106	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.42	50	50	54.4	54.7	109	109	70-130	1	20		
1,1-Dichloroethane	ug/L	<0.75	50	50	52.5	51.2	105	102	70-146	3	20		
1,1-Dichloroethene	ug/L	<0.57	50	50	51.2	50.9	102	102	70-130	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.97	50	50	50.9	50.5	101	100	70-130	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	41.5	41.8	83	84	46-150	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.56	50	50	54.8	53.8	110	108	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.83	50	50	50.9	50.2	101	100	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.36	50	50	53.4	52.0	107	104	70-146	3	20		
1,2-Dichloropropane	ug/L	<0.49	50	50	52.1	52.4	104	105	70-136	1	20		
1,3-Dichlorobenzene	ug/L	<0.87	50	50	48.4	48.1	97	96	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.95	50	50	49.6	48.8	99	98	70-130	2	20		
Benzene	ug/L	<0.41	50	50	56.5	55.4	113	111	70-137	2	20		
Bromodichloromethane	ug/L	<0.56	50	50	53.1	52.2	106	104	70-133	2	20		
Bromoform	ug/L	<0.94	50	50	50.8	50.2	102	100	57-130	1	20		
Bromomethane	ug/L	<0.91	50	50	38.0	37.2	75	73	41-148	2	20		
Carbon tetrachloride	ug/L	<0.49	50	50	54.0	53.4	108	107	70-154	1	20		
Chlorobenzene	ug/L	<0.41	50	50	52.5	52.2	105	104	70-130	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 0315-01-10 MILLER PROPERTY

Pace Project No.: 4065017

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 654786		MS		MSD		654787		% Rec	% Rec	Limits	RPD	Max RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Chloroethane	ug/L	<0.97	50	50	46.7	45.6	93	91	70-140	2	20			
Chloroform	ug/L	<1.3	50	50	55.1	54.4	109	108	70-130	1	20			
Chloromethane	ug/L	0.80J	50	50	34.8	32.6	68	64	45-154	6	20			
cis-1,2-Dichloroethene	ug/L	<0.83	50	50	54.7	53.6	109	107	70-130	2	20			
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	45.0	44.9	90	90	70-136	0	20			
Dibromochloromethane	ug/L	<0.81	50	50	53.0	52.9	106	106	70-130	0	20			
Dichlorodifluoromethane	ug/L	<0.99	50	50	22.7	20.8	45	42	10-157	9	20			
Ethylbenzene	ug/L	<0.54	50	50	56.1	55.5	112	111	70-130	1	20			
Isopropylbenzene (Cumene)	ug/L	<0.59	50	50	56.8	56.0	114	112	70-130	1	20			
m&p-Xylene	ug/L	<1.8	100	100	114	113	114	113	70-130	1	20			
Methyl-tert-butyl ether	ug/L	<0.61	50	50	48.2	47.1	96	94	59-141	2	20			
Methylene Chloride	ug/L	<0.43	50	50	54.1	53.4	108	107	70-130	1	20			
o-Xylene	ug/L	<0.83	50	50	57.3	56.9	115	114	70-130	1	20			
Styrene	ug/L	<0.86	50	50	50.8	50.1	102	100	35-164	1	20			
Tetrachloroethene	ug/L	<0.45	50	50	49.6	49.2	99	98	70-130	1	20			
Toluene	ug/L	<0.67	50	50	57.3	56.3	114	112	70-130	2	20			
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	53.9	52.4	108	105	70-130	3	20			
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	47.6	46.6	95	93	55-137	2	20			
Trichloroethene	ug/L	<0.48	50	50	54.9	54.6	110	109	70-130	1	20			
Trichlorofluoromethane	ug/L	<0.79	50	50	51.2	50.0	102	100	50-150	2	20			
Vinyl chloride	ug/L	<0.18	50	50	42.3	40.7	85	81	59-144	4	20			
4-Bromofluorobenzene (S)	%						97	97	43-137					
Dibromofluoromethane (S)	%						96	96	70-130					
Toluene-d8 (S)	%						104	106	55-137					

QUALIFIERS

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0315-01-10 MILLER PROPERTY
Pace Project No.: 4065017

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4065017002	MW-1	WI MOD GRO	GCV/8832		
4065017003	MW-2	WI MOD GRO	GCV/8832		
4065017004	MW-3	WI MOD GRO	GCV/8832		
4065017005	MW-4	WI MOD GRO	GCV/8832		
4065017006	MW-5	WI MOD GRO	GCV/8832		
4065017001	E2711 KROK RD	EPA 3010	MPRP/7332	EPA 6010	ICP/6372
4065017002	MW-1	EPA 3010	MPRP/7332	EPA 6010	ICP/6372
4065017003	MW-2	EPA 3010	MPRP/7332	EPA 6010	ICP/6372
4065017004	MW-3	EPA 3010	MPRP/7332	EPA 6010	ICP/6372
4065017005	MW-4	EPA 3010	MPRP/7332	EPA 6010	ICP/6372
4065017006	MW-5	EPA 3010	MPRP/7332	EPA 6010	ICP/6372
4065017001	E2711 KROK RD	EPA 8260	MSV/16241		

January 31, 2013

Chad Fradette
Mach IV Engineering & Surveying
211 N. Broadway
Suite 114
Green Bay, WI 54303

RE: Project: 0315-0211 MILLER PROPERTY
Pace Project No.: 4073362

Dear Chad Fradette:

Enclosed are the analytical results for sample(s) received by the laboratory on January 29, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Steven Mleczko for
Brian Basten
brian.basten@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 11888

North Dakota Certification #: R-150

South Carolina Certification #: 83006001

US Dept of Agriculture #: S-76505

Wisconsin Certification #: 405132750

SAMPLE SUMMARY

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4073362001	MW-5	Water	01/29/13 12:10	01/29/13 15:07
4073362002	MW-4	Water	01/29/13 12:40	01/29/13 15:07
4073362003	MW-3	Water	01/29/13 13:10	01/29/13 15:07
4073362004	MW-2	Water	01/29/13 13:45	01/29/13 15:07
4073362005	MW-1	Water	01/29/13 14:30	01/29/13 15:07
4073362006	TRIP	Water	01/29/13 00:00	01/29/13 15:07

REPORT OF LABORATORY ANALYSIS

SAMPLE ANALYTE COUNT

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4073362001	MW-5	WI MOD GRO	LCF	9	PASI-G
4073362002	MW-4	WI MOD GRO	LCF	9	PASI-G
4073362003	MW-3	WI MOD GRO	LCF	9	PASI-G
4073362004	MW-2	WI MOD GRO	LCF	9	PASI-G
4073362005	MW-1	WI MOD GRO	LCF	9	PASI-G
4073362006	TRIP	WI MOD GRO	LCF	9	PASI-G

REPORT OF LABORATORY ANALYSIS

PROJECT NARRATIVE

Project: 0315-0211 MILLER PROPERTY
Pace Project No.: 4073362

Method: WI MOD GRO
Description: WIGRO GCV
Client: Mach IV Engineering
Date: January 31, 2013

General Information:

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

Hold Time:

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

Initial Calibrations (including MS Tune as applicable):

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

Continuing Calibration:

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

Internal Standards:

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

Surrogates:

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

Method Blank:

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

Laboratory Control Spike:

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

Matrix Spikes:

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

Additional Comments:

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

ANALYTICAL RESULTS

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-5 Lab ID: 4073362001 Collected: 01/29/13 12:10 Received: 01/29/13 15:07 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		01/30/13 22:01	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		01/30/13 22:01	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		01/30/13 22:01	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		01/30/13 22:01	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		01/30/13 22:01	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		01/30/13 22:01	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		01/30/13 22:01	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		01/30/13 22:01	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1		01/30/13 22:01	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-4 Lab ID: 4073362002 Collected: 01/29/13 12:40 Received: 01/29/13 15:07 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		01/31/13 04:26	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		01/31/13 04:26	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		01/31/13 04:26	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		01/31/13 04:26	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		01/31/13 04:26	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		01/31/13 04:26	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		01/31/13 04:26	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		01/31/13 04:26	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	100 %		80-120		1		01/31/13 04:26	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-3 Lab ID: 4073362003 Collected: 01/29/13 13:10 Received: 01/29/13 15:07 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		01/31/13 03:35	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		01/31/13 03:35	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		01/31/13 03:35	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		01/31/13 03:35	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		01/31/13 03:35	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		01/31/13 03:35	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		01/31/13 03:35	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		01/31/13 03:35	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	101 %		80-120		1		01/31/13 03:35	98-08-8	

ANALYTICAL RESULTS

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-2 Lab ID: 4073362004 Collected: 01/29/13 13:45 Received: 01/29/13 15:07 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	4.3	ug/L	1.0	0.39	1		01/31/13 04:00	71-43-2	
Ethylbenzene	10.4	ug/L	1.0	0.41	1		01/31/13 04:00	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		01/31/13 04:00	1634-04-4	
Naphthalene	2.7	ug/L	1.0	0.40	1		01/31/13 04:00	91-20-3	
Toluene	3.3	ug/L	1.0	0.42	1		01/31/13 04:00	108-88-3	
1,2,4-Trimethylbenzene	7.7	ug/L	1.0	0.43	1		01/31/13 04:00	95-63-6	
1,3,5-Trimethylbenzene	5.5	ug/L	1.0	0.40	1		01/31/13 04:00	108-67-8	
Xylene (Total)	5.2	ug/L	3.0	1.3	1		01/31/13 04:00	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		01/31/13 04:00	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-1 Lab ID: 4073362005 Collected: 01/29/13 14:30 Received: 01/29/13 15:07 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	69.0	ug/L	2.0	0.78	2		01/31/13 01:27	71-43-2	
Ethylbenzene	169	ug/L	2.0	0.83	2		01/31/13 01:27	100-41-4	
Methyl-tert-butyl ether	2.1	ug/L	2.0	0.76	2		01/31/13 01:27	1634-04-4	
Naphthalene	44.7	ug/L	2.0	0.81	2		01/31/13 01:27	91-20-3	
Toluene	63.4	ug/L	2.0	0.83	2		01/31/13 01:27	108-88-3	
1,2,4-Trimethylbenzene	80.2	ug/L	2.0	0.86	2		01/31/13 01:27	95-63-6	
1,3,5-Trimethylbenzene	60.1	ug/L	2.0	0.79	2		01/31/13 01:27	108-67-8	
Xylene (Total)	84.8	ug/L	6.0	2.5	2		01/31/13 01:27	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	106	%	80-120		2		01/31/13 01:27	98-08-8	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: TRIP Lab ID: 4073362006 Collected: 01/29/13 00:00 Received: 01/29/13 15:07 Matrix: Water									
Analytical Method: WI MOD GRO									
Benzene	<0.39	ug/L	1.0	0.39	1		01/30/13 22:27	71-43-2	
Ethylbenzene	<0.41	ug/L	1.0	0.41	1		01/30/13 22:27	100-41-4	
Methyl-tert-butyl ether	<0.38	ug/L	1.0	0.38	1		01/30/13 22:27	1634-04-4	
Naphthalene	<0.40	ug/L	1.0	0.40	1		01/30/13 22:27	91-20-3	
Toluene	<0.42	ug/L	1.0	0.42	1		01/30/13 22:27	108-88-3	
1,2,4-Trimethylbenzene	<0.43	ug/L	1.0	0.43	1		01/30/13 22:27	95-63-6	
1,3,5-Trimethylbenzene	<0.40	ug/L	1.0	0.40	1		01/30/13 22:27	108-67-8	
Xylene (Total)	<1.3	ug/L	3.0	1.3	1		01/30/13 22:27	1330-20-7	
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		01/30/13 22:27	98-08-8	

QUALITY CONTROL DATA

Project: 0315-0211 MILLER PROPERTY

Project No.: 4073362

QC Batch: GCV/9722 Analysis Method: WI MOD GRO
 QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
 Associated Lab Samples: 4073362001, 4073362002, 4073362003, 4073362004, 4073362005, 4073362006

METHOD BLANK: 743302 Matrix: Water
 Associated Lab Samples: 4073362001, 4073362002, 4073362003, 4073362004, 4073362005, 4073362006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.43	1.0	01/30/13 18:10	
1,3,5-Trimethylbenzene	ug/L	<0.40	1.0	01/30/13 18:10	
Benzene	ug/L	<0.39	1.0	01/30/13 18:10	
Ethylbenzene	ug/L	<0.41	1.0	01/30/13 18:10	
Methyl-tert-butyl ether	ug/L	<0.38	1.0	01/30/13 18:10	
Naphthalene	ug/L	<0.40	1.0	01/30/13 18:10	
Toluene	ug/L	<0.42	1.0	01/30/13 18:10	
Xylene (Total)	ug/L	<1.3	3.0	01/30/13 18:10	
a,a,a-Trifluorotoluene (S)	%	100	80-120	01/30/13 18:10	

LABORATORY CONTROL SAMPLE & LCSD: 743303 743304

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.0	19.3	100	97	80-120	3	20	
1,3,5-Trimethylbenzene	ug/L	20	20.1	19.3	100	97	80-120	4	20	
Benzene	ug/L	20	22.1	21.1	111	106	80-120	5	20	
Ethylbenzene	ug/L	20	20.5	19.6	103	98	80-120	5	20	
Methyl-tert-butyl ether	ug/L	20	22.5	22.1	112	111	80-120	1	20	
Naphthalene	ug/L	20	20.4	21.2	102	106	80-120	4	20	
Toluene	ug/L	20	21.0	20.1	105	101	80-120	4	20	
Xylene (Total)	ug/L	60	61.5	59.0	102	98	80-120	4	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

QUALIFIERS

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 0315-0211 MILLER PROPERTY

Pace Project No.: 4073362

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4073362001	MW-5	WI MOD GRO	GCV/9722		
4073362002	MW-4	WI MOD GRO	GCV/9722		
4073362003	MW-3	WI MOD GRO	GCV/9722		
4073362004	MW-2	WI MOD GRO	GCV/9722		
4073362005	MW-1	WI MOD GRO	GCV/9722		
4073362006	TRIP	WI MOD GRO	GCV/9722		