SIGMA
ENVIRONMENTAL SERVICES INC.

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September 12, 2002

Project Reference #6515
FID #241287200
BRRTS #02-41-271-535

Ms. Gina Keenan
Wisconsin Department of Natural Resources
Southeast Region
Milwaukee Service Center
2300 N. Dr. ML King Drive
P.O. Box 12436
Milwaukee, WI 53212-0436

Re: **DERP Subsurface Investigation and Remedial Option Evaluation**
Norman Getz Property
6854 West Beloit Road
West Allis, Wisconsin

Dear Ms. Keenan:

Enclosed for the Wisconsin Department of Natural Resources review and classification is a copy of the Sigma Environmental Services, Inc. (Sigma) report entitled, "DERP Subsurface Investigation and Remedial Option Evaluation For Beloit Road Valet Cleaners, 6854 West Beloit Road, West Allis, Wisconsin, BRRTS #02-41-271535, September 2002".

Upon completion of your review, please contact our office at (414) 768-7144 with any questions or comments you may have.

Respectfully submitted,

SIGMA ENVIRONMENTAL SERVICES, INC.

James M. Westerman, CHMM
Senior Project Manager/Hydrogeologist

enclosure

cc: Mr. Norman Getz
Mr. Donald Gallo – Reinhart, Boerner, et. al.

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DERP SUBSURFACE INVESTIGATION REPORT
AND REMEDIAL OPTION EVALUATION
FOR
BELOIT ROAD VALET CLEANERS
6854 WEST BELOIT ROAD
WEST ALLIS, WISCONSIN
BRRTS#02-41-271535

PREPARED FOR:
MR. NORMAN GETZ
ROUTE 3, P.O. BOX 206AA
GRAFTON, WV 26354

PREPARED BY:
SIGMA ENVIRONMENTAL SERVICES, INC.
220 EAST RYAN ROAD
OAK CREEK, WISCONSIN 53154-4533

PROJECT REFERENCE #6515

SEPTEMBER 2002

Martin D. Nessman, P.G.
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Senior Project Engineer

CERTIFICATIONS

"I, Martin D. Nessman, hereby certify that I am a registered Professional Geologist in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Hydrogeologist 1168

Signature, title and P.G. number

P.G. Stamp

"I, Mafizul Islam, hereby certify that I am a registered Professional Engineer in the State of Wisconsin, registered in accordance with the requirements of ch. A-E 4, Wis. Adm. Code; that this document has been prepared in accordance with the Rules of Professional Conduct in ch. A-E 8, Wis. Adm. Code; and that, to the best of my knowledge, all information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

SENIOR PROJECT ENGR.

Signature, title and P.E. number

9.12.02

P.E. Stamp

"I, James M. Westerman, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Project Manager

Signature and title

EXECUTIVE SUMMARY

Mr. Norman Getz retained Sigma Environmental Services, Inc. (Sigma) of Oak Creek, Wisconsin, to conduct a Phase I environmental site assessment of a commercial property located at 6854 W. Beloit Road, West Allis, Wisconsin. The purpose of the environmental assessment was to identify any recognized environmental conditions, as defined by ASTM in its *Standard Practice for Environmental Site Assessments* (E1527-00), on the subject property. Sigma completed or directed the research and site observations between April 30 and May 4, 2001. Potential environmental concerns identified at the site included a 1,000-gallon fuel oil underground storage tank removed on April 4, 2001, and the historic use of the property as a dry cleaning business.

On May 1, 2001, Sigma advanced four hand auger borings (HA-1 through HA-4) to evaluate soil quality beneath the former dry cleaning facility building. Laboratory analysis of soil samples collected from the hand auger soil borings resulted in the detection of chlorinated hydrocarbon compounds including the dry cleaning compound tetrachloroethene (PCE) at concentrations exceeding the laboratory method detection limits. A site investigation was warranted to define the nature and extent of chlorinated volatile organic compounds (CVOCs) in soil and groundwater at the site.

On November 9, 2001, Sigma installed six groundwater monitoring wells (MW-1 through MW-6) to evaluate soil and groundwater quality at the site. Based on a review of the analytical results from groundwater samples collected at each well, it was evident that additional groundwater monitoring wells were necessary to define the degree and extent of CVOC impacts in groundwater. Three off-site groundwater monitoring wells (MW-7 through MW-9) and an on-site groundwater piezometer (PZ-1) were installed on January 18 and 19, 2002. One additional groundwater monitoring well (MW-10) was installed on July 19, 2002 to further define the extent of CVOC impacts.

Subsurface soils at the site are generally heterogeneous in nature with progressive layers of organic silt, inorganic silt, and silty clay observed in soil borings MW-1, MW-4, MW-5, MW-6 and MW-8 from the ground surface to approximately 16 feet below ground surface (bgs). Interbedded seams of sandy silt, sand, and clay observed from the ground surface to approximately 16 feet bgs in soil borings MW-2, MW-3, MW-9 and MW-10, which are all located in a north-south line to the west of the site building. The depth to water ranges between four and eight feet bgs; the elevation of the groundwater surface ranges from 731.59 to 725.47 feet above mean sea level (as measured on July 26, 2002). Based on the groundwater elevations, groundwater flow on-site is to the northwest, toward the intersection of Lincoln Avenue and 69th Street. Groundwater flow in the immediate vicinity of the site appears to be influenced by the utility corridors within 69th Street and Lincoln Avenue.

The highest PCE concentrations in soil were detected in samples collected under the site building, the northwest corner of the property, and immediately west of the property. PCE concentrations ranged between 665 micrograms per kilogram (µg/kg) in soil boring HA-2 at a depth of three to five feet bgs and 348,000 µg/kg in MW-3 at a depth of six to eight feet bgs. In addition, the relatively minor concentrations of other CVOCs, including trichloroethene, trans-1,2-dichloroethene, 1,1,2-trichloroethane, and chloromethane, were detected in soil across the site.

Laboratory analysis of the groundwater samples resulted in detected concentrations of CVOCs exceeding their respective Wisconsin Administrative Code, Chapter NR 140 (NR 140) enforcement standards (ES) in monitoring wells MW-2, MW-3, MW-4, and MW-10. The highest concentrations of PCE were detected at groundwater monitoring well MW-3, which had a PCE concentration of 14,300 micrograms per liter (µg/l) on July 26, 2002. The extent of chlorinated VOC groundwater impacts is defined by monitoring wells MW-1, MW-6, MW-7, MW-8, and MW-9, which have had no detections of CVOC concentrations above the laboratory method detection limits.

Chlorinated hydrocarbon contamination associated with the former use of the property as a dry cleaning operation has been detected beneath the site building and in the northwest corner of the property; the contamination poses a risk to the environment and a potential risk to human health.

Based on the nature and extent of the soil and groundwater impacts, Sigma recommends that remedial actions be completed to reduce the concentrations of CVOCs. Specifically, it is recommended that potassium permanganate solution be introduced into the subsurface to reduce the shallow soil impacts identified beneath the building and in the northwest corner of the site. The potassium permanganate will chemically oxidize the PCE and other CVOCs to reduce the contaminant mass in the soil. Furthermore, the potassium permanganate solution will percolate to the shallow groundwater table and reduce the contaminant concentrations in the shallow groundwater system, thus allowing natural attenuation to more effectively reduce residual groundwater impacts. The reduction of contaminant concentrations will reduce the environmental risks to human health (i.e., direct contact) and the environment (i.e., migration of contaminants from soil phase to groundwater phase).

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

TABLE OF CONTENTS (Cont.)

LIST OF APPENDICES

1. INTRODUCTION

Mr. Norman Getz retained Sigma Environmental Services, Inc. (Sigma) of Oak Creek, Wisconsin, to conduct a Phase I environmental site assessment of a commercial property located at 6854 W. Beloit Road, West Allis, Wisconsin. The purpose of the environmental assessment was to identify any recognized environmental conditions, as defined by ASTM in its *Standard Practice for Environmental Site Assessments (*E1527-00), on the subject property. Sigma completed or directed the research and site observations between April 30 and May 4, 2001. Potential environmental concerns identified at the site included a 1,000-gallon fuel oil underground storage tank removed on April 4, 2001, and the historic use of the property as a dry cleaning business. A report detailing the investigation of the degree and extent of petroleum impacts (BRRTS#02-41-279637) will be submitted to the Wisconsin Department of Natural Resources (WDNR) under separate cover.

On May 1, 2001, Sigma advanced four hand auger borings (HA-1 through HA-4) to evaluate soil quality beneath the former dry cleaning facility building. Laboratory analysis of soil samples collected from the hand auger soil borings resulted in the detection of chlorinated hydrocarbon compounds including the dry cleaning compound tetrachloroethene (PCE) at concentrations exceeding the laboratory method detection limits. A site investigation was warranted to define the nature and extent of chlorinated volatile organic compounds (CVOCs) in soil and groundwater at the site. All site investigation activities completed to address of CVOC impacts including procurement of three proposal bids for consultant selection, work plan approval, and approval of changes in scope of site work were done in accordance with ch. NR 169 Wis. Adm. Code and with WDNR Dry Cleaner Environmental Response Program (DERP) staff approval.

1.2 Purpose/Scope of Work.

A site investigation work plan was submitted to the WDNR on March 1, 2001 and was approved by the WDNR on April 4, 2001. An addendum to the work plan was submitted to the WDNR on March 11, 2002 and approved on April 8, 2002. The purpose of the subsurface investigation was to define the degree and extent of soil and groundwater impacts at the site and evaluate the potential risks to human health and the surrounding environment. The investigative activities performed by Sigma included the following:

- The advancement of one Geoprobe® soil boring (GP-1) and six hand auger soil borings (HA-1 through HA-6) to evaluate the degree and extent of chlorinated hydrocarbon impacts to soil;

- The installation of a total of ten groundwater monitoring wells (MW-1 through MW-10) and one groundwater piezometer (PZ-1), followed by groundwater sampling to determine if chlorinated volatile organic compounds (CVOCs) have impacted groundwater at the site and to determine the vertical and horizontal extent of groundwater impacts; and

- The completion of a receptor survey to evaluate the potential for vapor migration into the adjacent utility corridors.

1.3 Project Team.

The following firms and contractors provided services during the remedial investigation completed at the site:

Environmental Consulting Firm:

Sigma Environmental Services, Inc.
220 East Ryan Road
Oak Creek, Wisconsin 53154-4533
Telephone: (414) 768-7144

Monitoring Well Drilling Services:

Mid-America Drilling Services, Inc.
700 Hicks Drive
Elburn, IL 60119
Telephone: (630) 365-0600

Badger State Drilling Company, Inc.
360 Business Park Circle
Stoughton, WI 53589
Telephone: (608) 877-9770

Laboratory Services:

US Filter Enviroscan Services
301 West Military Road
Rothschild, WI 54474
Telephone: (715) 359-7226
WI Certification #737053130

Great Lakes Analytical Services
140 East Ryan Road
Oak Creek, WI 53154
Telephone: (414) 570-9461
WI Certification #341000330

2. BACKGROUND INFORMATION

Mr. Norman Getz retained Sigma to conduct a Phase I environmental site assessment of a commercial property (the former Beloit Road Valet Cleaners) located at 6854 W. Beloit Road in West Allis, Wisconsin. The purpose of the environmental assessment was to identify any recognized environmental conditions, as defined by ASTM in its *Standard Practice for Environmental Site Assessments (*E1527-00), on the subject property. Sigma completed or directed the research and site observations between April 30 and May 4, 2001. Potential environmental concerns identified at the site included the 1,000-gallon fuel oil UST removed on April 4, 2001 and the historic use of the property including a dry cleaning business.

Details of the UST site assessment were presented in a site assessment report that was submitted to WDNR on December 4, 2001. A report detailing the investigation of the degree and extent of petroleum impacts (BRRTS#02-41-279637) will be submitted to the WDNR under separate cover.

2.1 Site Description.

The Beloit Road Valet Cleaners property is located at 6854 W. Beloit Road in West Allis, Wisconsin (Figure 1). The property is located in a commercial/residential area. The property is bordered by West Lincoln Avenue to the north, South 69th Street to the west, West Beloit Road to the south and Bakers Citgo gasoline station (a closed LUST site) to the east. Neighboring businesses include the aforementioned Citgo station to the east, Fillipo's Restaurant located across 69th Street to the west, and Collectors Edge Comics located across Lincoln Avenue to the north.

2.1.1 Utility Review.

Underground telephone and fiber optic communication lines run along the northern and western property boundaries, which are typically buried within the top two feet of the ground surface. Underground water and sewer lines run within South 69th Street and West Lincoln Avenue; these utilities are set at approximately 10 feet below ground surface (bgs) as determined from drawings obtained from the City of West Allis. An underground gas service line runs beneath the center of the sidewalk along West Lincoln Avenue, and enters the building near its northeast corner. The natural gas line was observed to lie at a depth of eight feet bgs as observed during the UST removal, but due to topographical changes likely lies at a depth of four to six feet bgs along West Lincoln Avenue.

2.1.2 Surface Drainage.

Surface drainage from the site is to catch basins with South 69th Street, West Lincoln Avenue, and West Beloit Road.

2.1.3 Receptor Survey.

The site and surrounding commercial and residential properties are serviced by municipal water and sewer lines. No public or private water supply wells are known to exist within 1,000 feet of the property. The sanitary sewer, storm sewer, and water main manholes within South 69th Street and West Lincoln Avenue were screened using a photoionization detector (PID) on July 19, 2002. No organic vapors were detected in the utility manholes by the PID. The manholes screened and the PID results are shown on Figure 2. Based on a lack of chlorinated hydrocarbon impacts in groundwater samples collected in the off-site groundwater monitoring wells and the vapor screening results, there is no immediate risk of vapor migration to off-site basements or other enclosed structures. A discussion of the groundwater quality at the site is presented in Section 4.4.

3. INVESTIGATIVE PROCEDURES

During the investigation, Sigma supervised the advancement of soil borings, the installation of groundwater monitoring wells, and has provided a quantitative and qualitative hydrogeologic assessment of the site. The procedures used by Sigma during the investigation are discussed in the following sections.

3.1 Hand Auger Soil Borings.

During the site investigation, a total of six hand auger soil borings were advanced within the site building. On May 1, 2001, Sigma advanced four hand auger borings (HA-1 through HA-4) to evaluate soil quality beneath the former dry cleaning operation at the site. Hand auger soil borings HA-1 and HA-2 were advanced within the footprint of the former dry cleaning machines and borings HA-3 and HA-4 were advanced within rooms that contained self-serve dry cleaning equipment. Two additional hand auger borings (HA-5 and HA-6) were advanced to further define the nature and extent of chlorinated hydrocarbon impacts at the site. A concrete coring machine was used to penetrate the concrete floor slab; continuous soil samples were collected from each boring and selected soil samples were submitted for analysis for EPA method 8021 Volatile Organic Compounds (VOCs).

3.2 Geoprobe® Soil Borings.

On May 1, 2001, Sigma advanced one Geoprobe® soil boring (GP-1) to a depth of 10 feet bgs to define the extent of chlorinated hydrocarbon impacts east of the site building. Boring locations are depicted on the site plan map (Figure 2). Soil samples were continuously collected from the boring and classified in general accordance with the Unified Soil Classification System (USCS). Select soil samples from the boring were submitted for analysis for EPA Method 8260 VOCs. The grain size, moisture content, plasticity, and color descriptions are included on the soil boring logs (Form 4400-122) provided as Appendix A. Borehole Abandonment Forms (Form 3300-5B) are presented as Appendix B.

3.3 Soil Boring/Monitoring Well Installation.

On November 9, 2001, Sigma installed six groundwater monitoring wells (MW-1 through MW-6) to evaluate soil and groundwater quality at the site. Based on the groundwater analytical results from groundwater samples collected at each well, additional groundwater monitoring wells were necessary to define the degree and extent of Chlorinated Volatile Organic Compounds (CVOC) impacts in groundwater. Three off-site groundwater monitoring wells (MW-7 through MW-9) and an on-site groundwater piezometer (PZ-1) were installed on January 18 and 19, 2002. One additional groundwater monitoring well (MW-10) was installed on July 19, 2002 to further define the extent of CVOC impacts. The monitoring wells were constructed in accordance with Wisconsin Administrative Code, Chapter NR 141 (NR 141) groundwater monitoring well requirements. Detailed lithologic descriptions are presented on the soil boring log forms (Appendix A). The monitoring well construction forms (WDNR Form 4400-113A) are presented as Appendix C.

Soil cuttings brought to the ground surface during auger drilling procedures were placed in WDOT-approved 55-gallon drums and were stored on-site pending disposal. A total of 15 drums of soil cuttings are staged on-site.

3.4 Monitoring Well Development.

The monitoring wells installed by Sigma were developed in accordance with NR 141 requirements by alternatively surging and purging the well to remove sediment and establish a hydraulic connection with the native geology. The purge water was placed in WDOT-approved 55-gallon drums and staged on-site pending disposal. A total of six drums of water are staged on-site. Monitoring well development forms (WDNR Form 4400-113B) are presented as Appendix D.

4. INVESTIGATIVE RESULTS

The site-specific geology and hydrogeology were characterized during subsurface investigative activities. Soil and groundwater quality beneath the site were evaluated based on the results of field screening and laboratory analytical results. A detailed discussion of the physical and chemical characteristics of the soil and groundwater beneath the property is presented in the following sections.

4.1 Site Geology.

Two geologic cross sections (A-A' and B-B') were created using the information gathered during the investigation activities by Sigma. Subsurface soils at the site are generally heterogeneous in nature with progressive layers of organic silt, inorganic silt, and silty clay observed in soil borings MW-1, MW-4, MW-5, MW-6, and MW-8 from the ground surface to approximately 16 feet bgs. Interbedded seams of sandy silt, sand, and clay were encountered from the ground surface to approximately 16 feet bgs in soil borings MW-2, MW-3, MW-9, and MW-10, which are all generally located in a north-south trending line west of the site building. Detailed lithologic descriptions are presented on the soil boring log forms (Appendix A). The locations of the cross sections are depicted on Figure 3, and the corresponding cross sections are included as Figures 4 and 5.

4.2 Site Hydrogeology.

A total of ten groundwater monitoring wells (MW-1 through MW-10) and one piezometer (PZ-1) were installed during the investigation activities. Depth to groundwater measurements were recorded at each monitoring well for each groundwater sampling event and are summarized in Table 1. The depth to groundwater generally ranges between four and eight feet bgs; the elevation of the groundwater surface ranges from 731.59 to 725.47 feet above mean sea level (as measured on July 26, 2002). Based on the groundwater elevations, groundwater flow on-site is to the northwest, toward the intersection of Lincoln Avenue and 69th Street. Considering the relative depth to groundwater, the depth of the utilities and the groundwater contours, groundwater flow in the immediate vicinity of the site appears to be influenced by the utility corridors within 69th Street and Lincoln Avenue.

Groundwater contour maps were created using the depth to groundwater measurements collected on February 26 and July 26, 2002 and are presented as Figures 6 and 7, respectively. Using the groundwater elevation data, the horizontal hydraulic gradient was calculated to be 0.050 feet per foot (ft/ft). The water levels in groundwater monitoring well MW-3 and PZ-1 on July 26, 2002 were used to calculate the vertical gradient at the site. The vertical gradient is downward with a calculated magnitude of 0.148

ft/ft. However, it is noted that the water level in PZ-1 has increased over time and may not have reached a static level.

4.3 Soil Quality Results.

A review of the VOC analytical results from all of the soil borings indicates that the chlorinated hydrocarbon tetrachloroethene (PCE) is present in soil across the site. PCE is a solvent used in the dry cleaning industry. The highest PCE concentrations in soil were detected in samples collected under the site building, the northwest corner of the property, and immediately west of the property. PCE concentrations ranged between 665 micrograms per kilogram (µg/kg) in HA-2 at a depth of three to five feet bgs and 348,000 µg/kg in MW-3 at a depth of six to eight feet bgs. In addition, the PCE breakdown compounds trichloroethene (TCE), trans-1,2-dichloroethene, and other chlorinated compounds 1,1,2-trichloroethane, and chloromethane were detected in soil across the site at relatively low concentrations (67.2 to 131 µg/kg). The WDNR does not currently set generic residual contaminant levels (RCLs) for any of the CVOCs detected at the site. However development of site-specific RCLs using US EPAs soil screening guidance is acceptable to the WDNR, per WDNR guidance document PUB-RR-682, dated January 2002. Site specific RCLs for the site will be calculated as part of the remedial approach. The elevated concentrations of CVOCs observed in subsurface soils at the site indicate that a potential risk to human health via direct contact exists at the site. A summary of the soil analytical results is presented in Table 2 and are shown on Figure 8. The soil laboratory reports and chain-of-custody are included as Appendix E.

4.4 Groundwater Quality Results.

The monitoring well network was sampled on November 28, 2001, February 1, 2002, and July 26, 2002. Laboratory analysis of the groundwater samples detected concentrations of CVOCs above the respective Wisconsin Administrative Code, Chapter NR 140 (NR 140) enforcement standards (ES) in monitoring wells MW-2, MW-3, MW-4, and MW-10. The highest concentrations of PCE were detected at groundwater monitoring well MW-3, which had a PCE concentration of 14,300 micrograms per liter (µg/l) on July 26, 2002. Groundwater analytical results are summarized in Table 3 and are shown on Figure 9. A groundwater PCE isoconcentration map was created using the July 26, 2002 analytical data and is presented as Figure 10. The PCE contaminant plume is centered in the northwest corner of the property in the vicinity of groundwater monitoring well MW-3 and the extent of PCE impacts is defined by monitoring wells MW-1, MW-6, MW-7, MW-8 and MW-9. The groundwater laboratory reports and chain-of-custody forms are included as Appendix F.

5. INVESTIGATIVE SUMMARY AND CONCLUSIONS

5.1 Summary.

The results of the investigation are summarized below:

- Subsurface soils at the site are generally heterogeneous in nature with progressive layers of organic silt, inorganic silt, and silty clay observed in soil borings MW-1, MW-4, MW-5, MW-6 and MW-8 from the ground surface to approximately 16 feet bgs. Interbedded seams of sandy silt, sand, and clay were encountered from the ground surface to approximately 16 feet bgs in soil borings MW-2, MW-3, MW-9, and MW-10.

- The depth to groundwater is generally ranges between four and eight feet bgs; the elevation of the groundwater surface ranges from 731.59 to 725.47 feet above mean sea level. Based on the groundwater elevations, groundwater flow on-site is to the northwest, toward the intersection of Lincoln Avenue and 69th Street with a calculated horizontal hydraulic gradient of 0.050 feet per foot (ft/ft). Vertical groundwater flow is downward with a calculated magnitude of 0.148 ft/ft. Groundwater flow down-gradient of the site appears to be influenced by the utility corridors within 69th Street and Lincoln Avenue.

- The highest PCE concentrations in soil were detected soil samples collected under the site building, the northwest corner of the property, and immediately west of the property.

- Laboratory analysis of the groundwater samples detected concentrations of CVOCs above the respective NR 140 ESs in monitoring wells MW-2, MW-3, MW-4, and MW-10. The highest concentrations of PCE were detected at groundwater monitoring well MW-3, which had a PCE concentration of 14,300 µg/l on July 26, 2002. The extent of CVOC groundwater impacts is defined by monitoring wells MW-1, MW-6, MW-7, MW-8, and MW-9 which have had no detections of chlorinated hydrocarbons above the laboratory method detection limits.

- The sanitary sewer, storm sewer, and water main manholes within South 69th Street and West Lincoln Avenue were screened using a PID on July 19, 2002; no organic vapors were detected by the PID.

5.2 Conclusions.

Based on the soil and groundwater data collected during the site investigation, the following conclusions can be made:

- Chlorinated hydrocarbon compounds associated with the former use of the property as a dry cleaning operation have been detected beneath the site building and in the northwest corner of the property at concentrations that pose a risk to the environment and a potential risk to human health via direct contact.

6. REMEDIAL ACTION OPTIOINS EVLAUATION

Based on the shallow soil impacts, and relatively shallow groundwater table (approximately four to eight feet bgs), Sigma recommends that remedial actions be completed to reduce the concentrations of CVOCs. Specifically, the shallow soil impacts need to be addressed to reduce the human health risk associated with direct contact with the soil, as well as to reduce the contaminant mass in the soil and therefore limit the chlorinated hydrocarbon compounds from further dissolving into the groundwater phase and allow natural attenuation to effectively remediate the residual impacts.

Sigma has evaluated remediation technologies typically utilized to address residual CVOC concentrations in the subsurface, including:

- Excavation and off-site treatment/disposal,
- Soil vapor extraction,
- *In situ* nutrient addition,
- *In situ* bioaugmentation,
- *In situ* chemical oxidation, which includes hydrogen peroxide, Fenton's reagent, and potassium permanganate (as well as other chemical oxidants),
- Natural attenuation.

Based on a review of remediation technologies, and considering the site-specific chemical data and physical conditions, Sigma recommends in-situ treatment using chemical oxidation technology to treat shallow soil (and groundwater) impacts at the site. This recommendation is also based on the limitations of the other remedial technologies, including:

- Excavation of impacted soils is limited by the presence of the existing building, which covers a substantial portion of the impacted soil, and the presence of communication and other utility lines in the northwest corner of the site.

- Soil vapor extraction is limited by the shallow water table, heterogeneous soils encountered beneath the site, and the very shallow soil impacts that preclude the effective capture and removal

of contaminants by vapor extraction (i.e., short circuiting of air from the ground surface would occur outside the building).

- *In situ* nutrient addition and/or bioaugmentation effectiveness depends on the oxygen levels (i.e., anaerobic or aerobic) of the subsurface soils. The two primary contaminants of concern at the site, PCE and TCE, degrade under anaerobic conditions. However, based on the shallow depth of the soil impacts and the high ratio of PCE to TCE (which suggests that PCE is not readily degrading into TCE under present conditions), it appears that the shallow subsurface is under aerobic conditions. Therefore, the addition of nutrients or microbes would not significantly increase the degradation of PCE or TCE because of the overriding need for anaerobic conditions for effective biodegradation.

- Natural attenuation is not an appropriate technology to be used alone to address the residual impacts. Groundwater quality data clearly indicate that CVOCs, most notably PCE in monitoring well MW-3, have migrated from the soil phase into the groundwater phase, suggesting that a more aggressive remedial approach is warranted. Furthermore, the ratio of PCE to TCE concentrations in soil and groundwater indicate that very little natural attenuation is occurring at this time.

- In-situ treatment via chemical oxidation of the contaminants appears to be the most effective remedial strategy for the site, given the distribution of contaminants and physical restrictions. The three most widely used oxidants for subsurface treatment are Fenton's reagents, hydrogen peroxide, and potassium permanganate. Fenton's reagent, typically used to treat groundwater impacts and by-products of hydrogen peroxide introduction into the subsurface, may pose a risk to the adjacent building structure and/or nearby utility lines. In contrast, potassium permanganate is a highly effective oxidant for chemical solvents such as PCE, TCE, DCE and Vinyl Chloride. Introduction of potassium permanganate into the subsurface is relatively safe, and mixing with soil either through in-place excavation and mechanical mixing, surface infiltration or via injection probes are preferred methods of establishing good contact between the impacted materials and the oxidant. By-products of the chemical reaction include manganese dioxide, carbon dioxide, water and potassium. The WDNR has approved its use as a remedial technology at other sites in Wisconsin because it is relatively safe to handle and does not cause heat and vapor generation (other oxidants such as hydrogen peroxide can create significant heat and increased vapor in the subsurface).

Therefore, it is recommended that potassium permanganate solution be introduced into the shallow subsurface to treat the shallow soil impacts identified beneath the building and within the northwest corner of the property. Soil generated during potassium permanganate introduction will be transported off-site for disposal as appropriate, further reducing the long-term risk of direct contact with residually impacted soils. Soils generated during the investigation activities would also be transported for disposal at that time. The potassium permanganate will chemically oxidize the CVOCs in the shallow soils and reduce the contaminant concentrations. Furthermore, the potassium permanganate solution will percolate to the shallow groundwater table and help reduce the contaminant concentrations in the shallow groundwater system. After the most significant soil impacts are reduced via the chemical oxidation, natural attenuation of groundwater impacts will be a more feasible approach to address the residual groundwater impacts over time. The reduction of contaminant concentrations in the soil will reduce the environmental risks to human health (i.e., direct contact) and the environment (i.e., migration of contaminants from soil phase to groundwater phase).

A detailed layout of the proposed remedial options and a breakdown of costs for site remediation will be provided during the period of project bidding.

7. RECOMMENDATION

Considering the identified site environmental conditions and the completed remedial option evaluation for the site, it is recommended that potassium permanganate solution be introduced into the shallow subsurface to treat the shallow soil impacts identified beneath the building and within the northwest corner of the property as well as to address the shallow groundwater table impacts.

8. LIMITATIONS OF INVESTIGATION

This report was prepared under constraints of cost, time, and scope, and reflects a limited assessment and evaluation rather than a full, total, complete, or extensive assessment and evaluation. Our assessment was performed using the degree of care and skill ordinarily exercised, under similar circumstances, by professional consultants practicing in this or similar localities. No other warranty or guarantee, expressed or implied, is made as to the conclusions and professional advice included in this report.

The findings of this report are valid as of the present date of the assessment. However, changes in the conditions of a property can occur with the passage of time, whether due to natural processes or the works of man on this or adjacent properties. In addition, changes in applicable or appropriate standards may occur, whether they result from legislation, from the broadening of knowledge, or from other reasons. Accordingly, the findings of this report may be invalidated wholly or partially by changes outside our control.

The interpretations and conclusions contained in this report are based upon the result of independent laboratory tests and analysis intended to detect the presence and/or concentrations of certain chemical constituents in samples taken from the subject property. Sigma has no control over such testing and analysis and therefore, disclaims any responsibility for any errors and omissions arising therefrom.

A subsurface exploration was performed and presented in this report. However, subsurface exploration cannot totally reveal what is below the surface. Depending upon the sampling method and frequency, every soil condition may not be observed, and some materials or layers which are present in the subsurface may not be noted.

This report is issued with the understanding that it is the responsibility of the owner(s) to ensure that the information and recommendations contained herein are brought to the attention of the appropriate regulatory agency(ies).

TABLES

Table 1

Groundwater Elevations

Norman Getz Property

6354 West Beloit Road

West Allis, Wisconsin

Project Reference #6515

Well ID	Date	Ground Surface Elevation	Casing Elevation	Depth to Water	Groundwater Elevation
MW-1	11/28/2001	738.69	738.4	7.36	731.04
	02/01/2002			7.29	731.11
	02/26/2002			6.2	732.2
	07/26/2002			6.81	731.59
MW-2	11/28/2001	734.83	734.64	7.6	727.04
	02/01/2002			7.91	726.73
	02/26/2002			7.21	727.43
	07/26/2002			7.5	727.14
MW-3	11/28/2001	733.84	733.65	6.46	727.19
	02/01/2002			6.87	726.78
	02/26/2002			6.03	727.62
	07/26/2002			6.54	727.11
MW-4	11/28/2001	734.51	734.17	8.86	725.31
	02/01/2002			6.31	727.86
	02/26/2002			5.95	728.22
	07/26/2002			5.71	728.46
MW-5	11/28/2001	735.41	735.08	3.58	731.50
	02/01/2002			4.02	731.06
	02/26/2002			2.98	732.1
	07/26/2002			3.88	731.2
MW-6	11/28/2001	737.07	736.49	12.22	724.27
	02/01/2002			5.47	731.02
	02/26/2002			4.7	731.79
	07/26/2002			5.43	731.06
MW-7	11/28/2001	732.6	732.4	NA	NA
	02/01/2002			6.86	725.54
	02/26/2002			5.35	727.05
	07/26/2002			4.75	727.65
MW-8	11/28/2001	734.35	733.88	NA	NA
	02/01/2002			8.7	725.18
	02/26/2002			3.79	730.09
	07/26/2002			3.64	730.24
MW-9	11/28/2001	733.49	733.1	NA	NA
	02/01/2002			7.39	725.71
	02/26/2002			6.79	726.31
	07/26/2002			7.63	725.47
MW-10	NA				
	NA				
	NA				
	07/26/2002	736.57	736.24	8.57	727.67
PZ-1	11/28/2001	733.53	732.98	NA	NA
	02/01/2002			25.86	707.12
	02/26/2002			11.3	721.68
	07/26/2002			9.14	723.84

Elevations based on professional survey completed by LIS on 01/25/02

Table 2
Soil Laboratory Analytical Results
Detected Compounds Only
Norman Getz Property
6354 West Beloit Road
West Allis, Wisconsin
Project Reference #6515

Boring ID	GP-1	GP-1	MW-1	MW-1	MW-2	MW-2	MW-3	MW-3	MW-4	MW-4	NR 720 RCL	NR 746 Table 1 SSL	NR 746 Table 2 SSL
Depth (feet bgs)	2 - 4	4-6	2 - 4	6 - 8	6 - 8	12 - 14	0 - 2	6 - 8	0 - 2	6 - 8			
DRO mg/kg	NA	1250	NA	NA	NA	NA	NA	NA	<6.23	<5.83	**	**	**
Volatile Organic Compounds:													
Benzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	5.5	8,500	1,100
n-Butylbenzene	<25	**1110**	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
sec-Butylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
tert-Butylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
Chloromethane	<25	<100	<25	**75***	**114***	**83.5***	<25	<1,000	<25	**128***	**	**	**
cis-1,2-Dichloroethene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
trans-1,2-Dichloroethene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	**43.4***	**	**	**
Ethylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
Isopropylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
Methyl Tert Butyl Ether	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
n-Propylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
Tetrachloroethene	<25	<100	**173***	<25	**1370***	**118000***	**42200***	**348000***	**1830***	**3080***	**	**	**
Toluene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
1,1,2-Trichloroethane	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	**116***	**	**	**
Trichloroethene	<25	<100	<25	<25	<25	<25	128	<1,000	<25	**131***	**	**	**
1,2,4-Trimethylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
1,3,5-Trimethylbenzene	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
Total Xylenes	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**
Vinyl Chloride	<25	<100	<25	<25	<25	<25	<25	<1,000	<25	<25	**	**	**

KEY:

GRO = Gasoline Range Organics
mg/kg = Milligrams per kilogram
NA = Not Analyzed
** = No Standard Established
BOLD* = Detected above the labortory method detection limit
BOLD = Detected above NR 720 Residual Contaminant Level (Generic, Table 1, or Table 2)
BOLD = Detected above NR 746 Table 1 Soil Screening Level or (if applicable) Table 2 SSL

All results, except where indicated, are expressed in micrograms per kilogram (ug/kg).

Table 2 (cont.)
Soil Laboratory Analytical Results
Detected Compounds Only
Norman Getz Property
6354 West Beloit Road
West Allis, Wisconsin
Project Reference #6515

Boring ID	MW-5	MW-5	MW-6	MW-6	MW-7	MW-8	MW-9	MW-10		NR 720 RCL	NR 746 Table 1 SSL	NR 746 Table 2 SSL
Depth (feet bgs)	4 - 6	10 - 12	4 - 6	8 - 10	6 - 8	6 - 8	6 - 8	3-5'	7-9'			
DRO mg/kg	***2,180***	***18***	***9.45***	<5.83	NA	NA	NA	NA	NA	100	**	**
Volatile Organic Compounds:												
Benzene	***37***	<25	<25	<25	<25	<25	<25	<25	<25	5.5	8,500	1,100
n-Butylbenzene	**6220***	**527***	<25	<25	<25	<25	<25	<25	<25	**	**	**
sec-Butylbenzene	**6710***	**463***	<25	<25	<25	<25	<25	<25	<25	**	**	**
tert-Butylbenzene	**132***	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Chloromethane	**87***	**67.2***	**69.6***	<25	<25	<25	<25	<25	<25	**	**	**
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Ethylbenzene	75.4*	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Isopropylbenzene	2700*	**116***	<25	<25	<25	<25	<25	<25	<25	**	**	**
Methyl Tert Butyl Ether	25*	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
n-Propylbenzene	4700*	**353***	<25	<25	<25	<25	<25	<25	<25	**	**	**
Tetrachloroethene	<25	**94***	**140***	**159***	<25	<25	<25	**139***	**1690***	**	**	**
Toluene	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Trichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
1,2,4-Trimethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
1,3,5-Trimethylbenzene	97.3*	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Total Xylenes	48.6*	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**

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BOLD = Detected above NR 720 Residual Contaminant Level (Generic, Table 1, or Table 2)
BOLD = Detected above NR 746 Table 1 Soil Screening Level or (if applicable) Table 2 SSL
All results, except where indicated, are expressed in micrograms per kilogram (ug/kg).

Table 2 (cont.)
Soil Laboratory Analytical Results
Detected Compounds Only
Norman Getz Property
6354 West Beloit Road
West Allis, Wisconsin
Project Reference #6515

Boring ID	HA-1		HA-2	HA-3		HA-4	HA-5	HA-5	HA-6	HA-6	NR 720 RCL	NR 746 Table 1 SSL	NR 746 Table 2 SSL
Depth (feet bgs)	1-3	7-9	3-5	5-7	7-9	3-5	2-4	6-7'	2-4'	6-7'			
DRO mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100	**	**
Volatile Organic Compounds:													
Benzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	5.5	8,500	1,100
n-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
sec-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
tert-Butylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Chloromethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
cis-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
trans-1,2-Dichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Ethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Isopropylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Methyl Tert Butyl Ether	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
n-Propylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Tetrachloroethene	**2200***	**149***	**665***	**41600***	**24200***	**5860***	**34700***	**19100***	**10600***	**11900***	**	**	**
Toluene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
1,1,2-Trichloroethane	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Trichloroethene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
1,2,4-Trimethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
1,3,5-Trimethylbenzene	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Total Xylenes	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**
Vinyl Chloride	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	**	**	**

KEY:

GRO	= Gasoline Range Organics
mg/kg	= Milligrams per kilogram
NA	= Not Analyzed
**	= No Standard Established
BOLD*	= Detected above the labortory method detection limit
BOLD	= Detected above NR 720 Residual Contaminant Level (Generic, Table 1, or Table 2)
BOLD	= Detected above NR 746 Table 1 Soil Screening Level or (if applicable) Table 2 SSL

All results, except where indicated, are expressed in micrograms per kilogram (ug/kg).

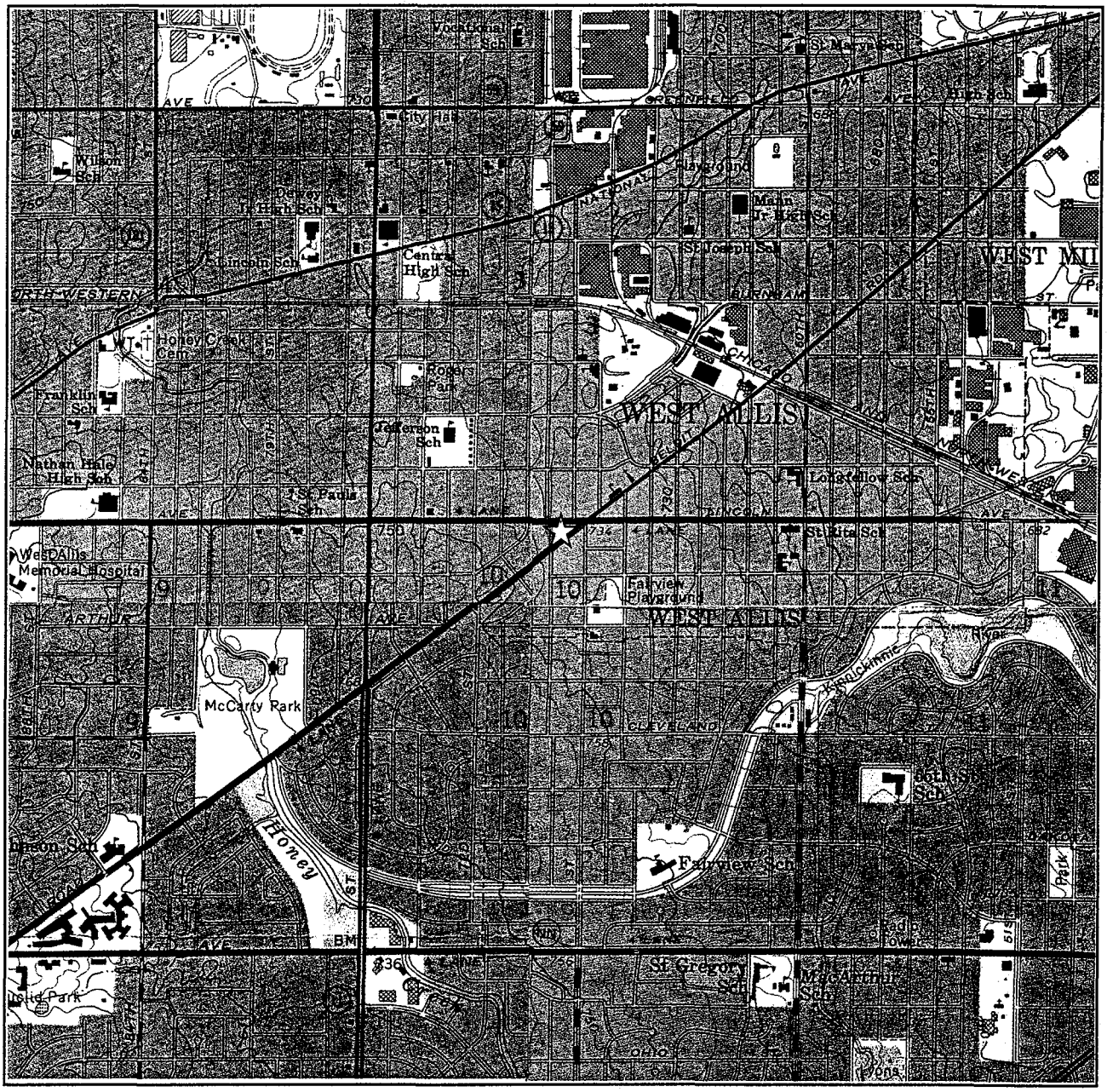
Table 3
Groundwater Laboratory Analytical Results
Detected Compounds Only
Norman Getz Property
6354 West Beloit Road
West Allis, Wisconsin
Project Reference #6515

		MW-1			MW-2			MW-3			MW-4			MW-5			MW-6			MW-7		MW-8		MW-9		MW-10	PZ-1		NR 140 ES	NR 140 PAL
Date Sampled		11/28/2001	02/01/2002	07/26/2002	11/28/2001	02/01/2002	07/26/2002	11/28/2001	02/01/2002	07/26/2002	11/28/2001	02/01/2002	07/26/2002	11/28/2001	02/01/2002	07/26/2002	11/28/2001	02/01/2002	07/26/2002	02/01/2002	07/26/2002	02/01/2002	07/26/2002	02/01/2002	07/26/2002	07/26/2002	02/01/2002	07/26/2002		
DRO	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.169*	NA	NA	0.822*	NA	NA	0.130*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NES	NES
Petroleum Volatile Organic Compounds:																														
Benzene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.82**	**15.7**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	5	0.5
n-Butylbenzene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	2.47	**10.2***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.15***	<0.5	NES	NES
sec-Butylbenzene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	3.68	**15.1***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NES	NES
cis-1,2-Dichloroethene	ug/l	<0.5	<0.5	<0.5	***8.23***	***6.32***	**121**	**185**	**229**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.70***	<0.5	<0.5	70	7
trans-1,2-Dichloroethene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.95***	**3.44***	**2.7***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	100	20
Ethylbenzene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.95***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	700	140
Isopropylbenzene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	6.53	**22***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NES	NES
p-Isopropyltoluene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.36***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1.71***	<0.5	NES	NES
Methyl Tert Butyl Ether	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**3.75***	**6.10***	**2.63***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	60	12
Naphthalene	ug/l	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**3.92***	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**7.41***	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	40	8
n-Propylbenzene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	7.30	**27.1***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NES	NES
Tetrachloroethene	ug/l	<0.5	<0.5	<0.5	**5,910**	**7,260**	**2,870**	**16,500**	**17,800**	**14,300**	***3.97***	***3.90***	***4.34***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**1,070**	<0.5	***4.30***	5	0.5
Toluene	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1,000	200
Trichloroethene	ug/l	<0.5	<0.5	<0.5	***1.25***	***3.31***	<0.5	**35.6**	**46.6**	**65.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**5.19**	<0.5	<0.5	5	0.5
1,2,4-Trimethylbenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	480	96
1,3,5-Trimethylbenzene	ug/l	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.65***	<1.0	480	96
Vinyl Chloride	ug/l	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	**18.5**	**5.45**	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	0.2	0.02
Total Xylenes	ug/l	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**2.26***	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	**0.866***	<0.5	<0.5	<0.5	<0.5	<0.5	10,000	1,000
Biological Parameters																														
Nitrate-Nitrite	mg/l	NA	NA	NA	***2.14***	NA	NA	***3.54***	NA	NA	0.101*	NA	NA	<0.0500	NA	NA	**0.378***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	2
Soluble Sulfate	mg/l	NA	NA	NA	**25.8***	NA	NA	**28.3***	NA	NA	**174***	NA	NA	**27.2***	NA	NA	**135***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NES	NES
Soluble Manganese	mg/l	NA	NA	NA	**0.304***	NA	NA	**0.120***	NA	NA	**0.282***	NA	NA	**0.565***	NA	NA	**0.230***	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NES	NES

KEY:

ug/l = micrograms per liter
mg/l = milligrams per liter
DRO = Diesel Range Organics
NA = Not Analyzed
NES = No Standard Established
BOLD = Analyte detected above Chapter NR 140 Enforcement Standard (ES)
ITALICS = Analyte detected above Chapter NR 140 Preventive Action Limit (PAL)
BOLD* = Analyte detected above the laboratory method detection limit

FIGURES

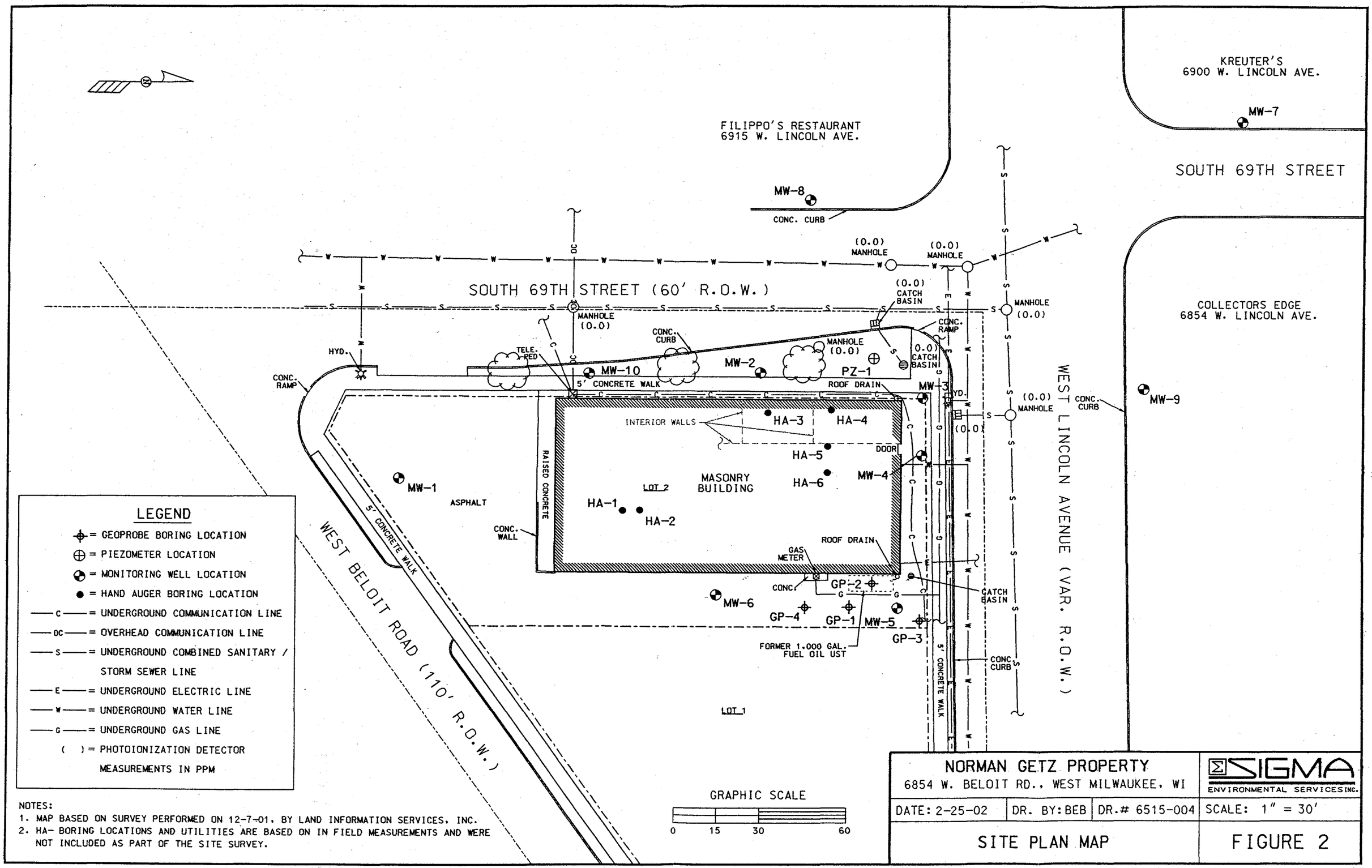


NE ¼, NW ¼, Sec. 10, T6N, R21E. Adapted from U.S.G.S. 7.5 minute series, Milwaukee, Greendale, Hales Corners, and Wauwatosa, Wisconsin, quadrangles dated 1958 (photorevised 1971), 1958 (photorevised 1971 and 1976), 1959 (revised 1994), and 1958 (photorevised 1971, photoinspected 1976), respectively.

Figure 1. Topographic Location Map
Norman Getz Property
6854 W. Beloit Rd., West Allis, Wisconsin

SIGMA ENVIRONMENTAL SERVICES INC.

6515fig1.ppt



LEGEND

- ⌖ = GEOPROBE BORING LOCATION
- ⊕ = PIEZOMETER LOCATION
- ◓ = MONITORING WELL LOCATION
- ● = HAND AUGER BORING LOCATION
- —— c —— = UNDERGROUND COMMUNICATION LINE
- —— oc —— = OVERHEAD COMMUNICATION LINE
- —— s —— = UNDERGROUND COMBINED SANITARY / STORM SEWER LINE
- —— E —— = UNDERGROUND ELECTRIC LINE
- —— w —— = UNDERGROUND WATER LINE
- —— G —— = UNDERGROUND GAS LINE
- ( ) = PHOTOIONIZATION DETECTOR MEASUREMENTS IN PPM

GRAPHIC SCALE

0 15 30 60

NOTES:
1. MAP BASED ON SURVEY PERFORMED ON 12-7-01, BY LAND INFORMATION SERVICES, INC.
2. HA- BORING LOCATIONS AND UTILITIES ARE BASED ON IN FIELD MEASUREMENTS AND WERE NOT INCLUDED AS PART OF THE SITE SURVEY.

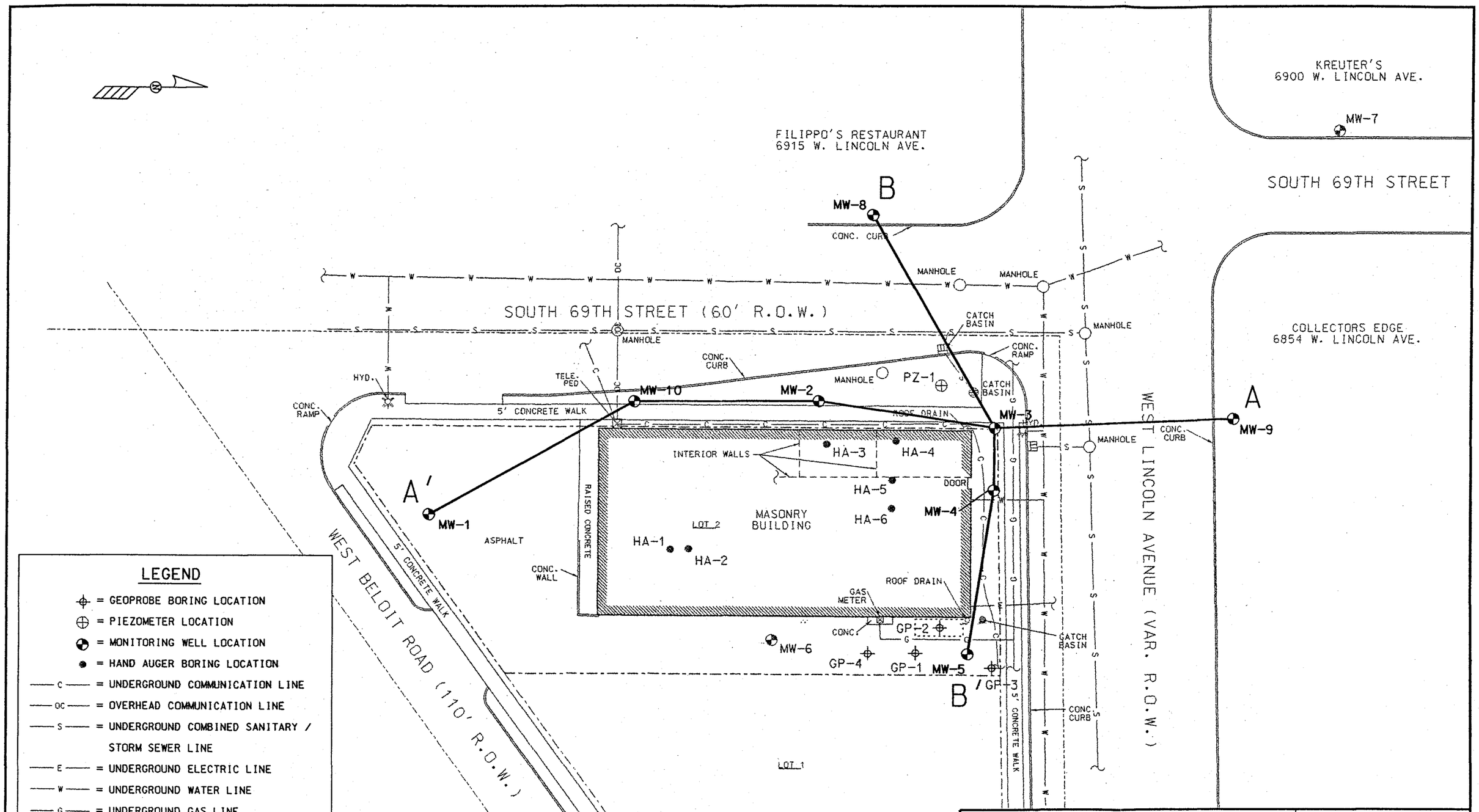
NORMAN GETZ PROPERTY
6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-25-02	DR. BY: BEB	DR.# 6515-004	SCALE: 1" = 30'

SITE PLAN MAP

FIGURE 2



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- —— W —— = UNDERGROUND WATER LINE
- —— G —— = UNDERGROUND GAS LINE
- A ⌐ ¬ A' = GEOLOGIC CROSS SECTION LOCATION

NOTES:
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GRAPHIC SCALE

0 15 30 60

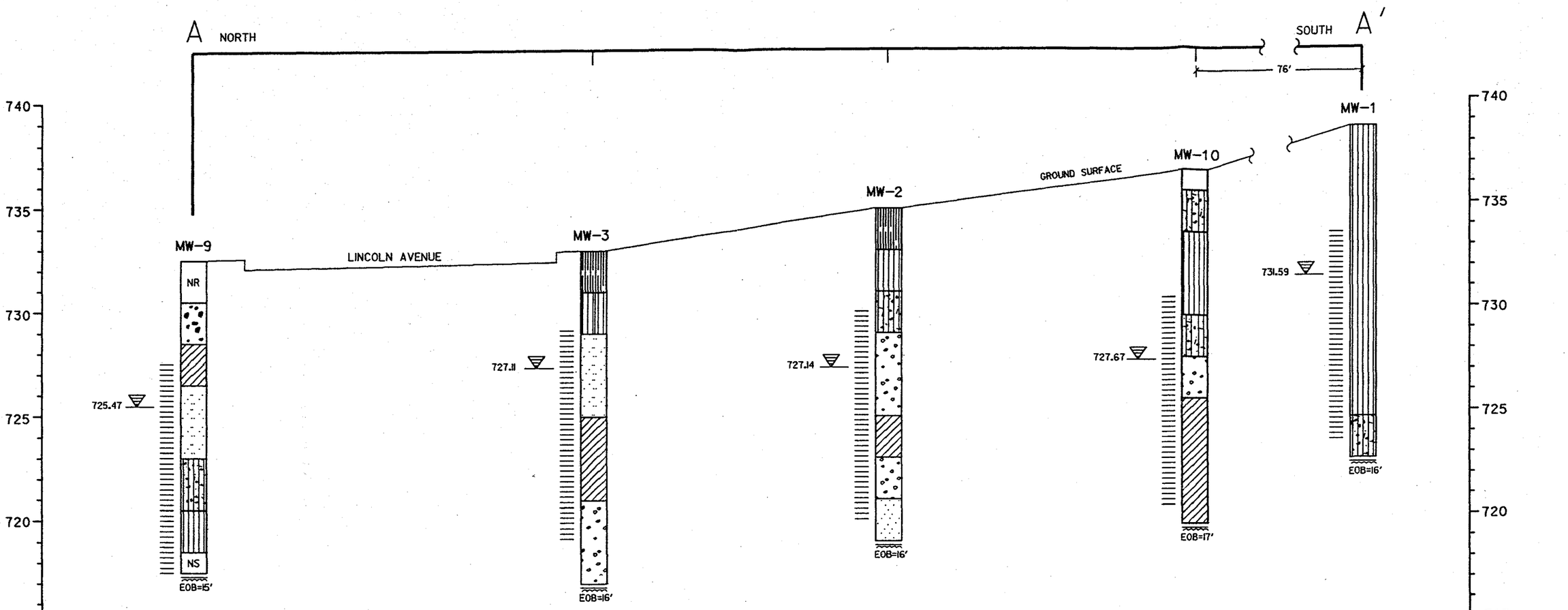
NORMAN GETZ PROPERTY
6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-27-02	DR. BY: BEB	DR.# 6515-005	SCALE: 1" = 30'

GEOLOGIC CROSS SECTION LOCATION MAP

FIGURE 3



USCS SYMBOLS

- GW – WELL – GRADED GRAVELS, GRAVEL – SAND MIXTURES LITTLE OR NO FINES.
- SP – POORLY – GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
- CL – INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SAND CLAYS, SILTY CLAYS, LEAN CLAYS.
- SW – WELL – GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.
- SM – SILTY – SANDS, SAND – SILT MIXTURES.
- ML – INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY.
- OL – ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY.

LEGEND

NR = NO RECOVERY
NS = NOT SAMPLED
= WELL SCREEN INTERVAL
= STATIC WATER LEVEL (7-26-02)

NOTES:
HORIZONTAL SCALE 1" = 20'
VERTICAL SCALE 1" = 5'

NORMAN GETZ PROPERTY

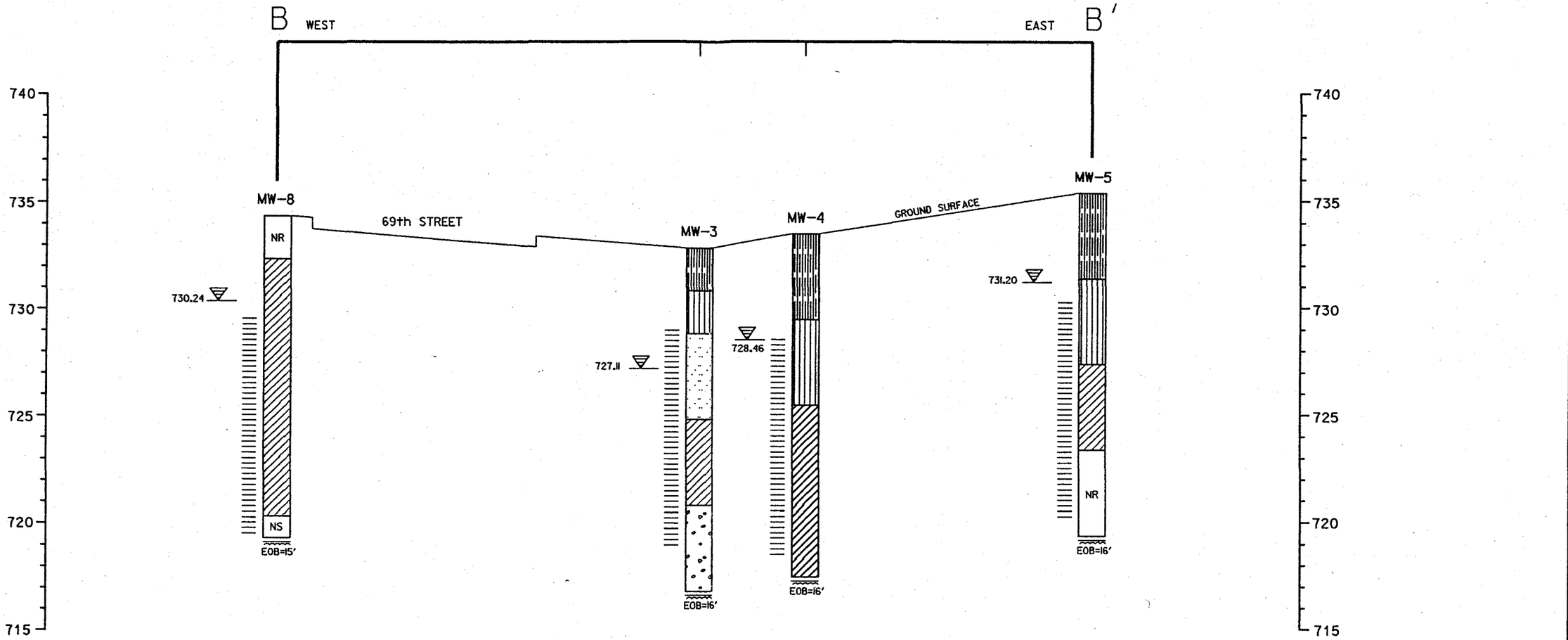
6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-27-02	DR. BY: BEB	DR.# 6515-008	SCALE: SEE NOTES

GEOLOGIC CROSS SECTION (A – A')

FIGURE 4



LEGEND

NR = NO RECOVERY
NS = NOT SAMPLED

= WELL SCREEN INTERVAL

= STATIC WATER LEVEL (7-26-02)

USCS SYMBOLS

SP - POORLY - GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.

CL - INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SAND CLAYS, SILTY CLAYS, LEAN CLAYS.

SW - WELL - GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES.

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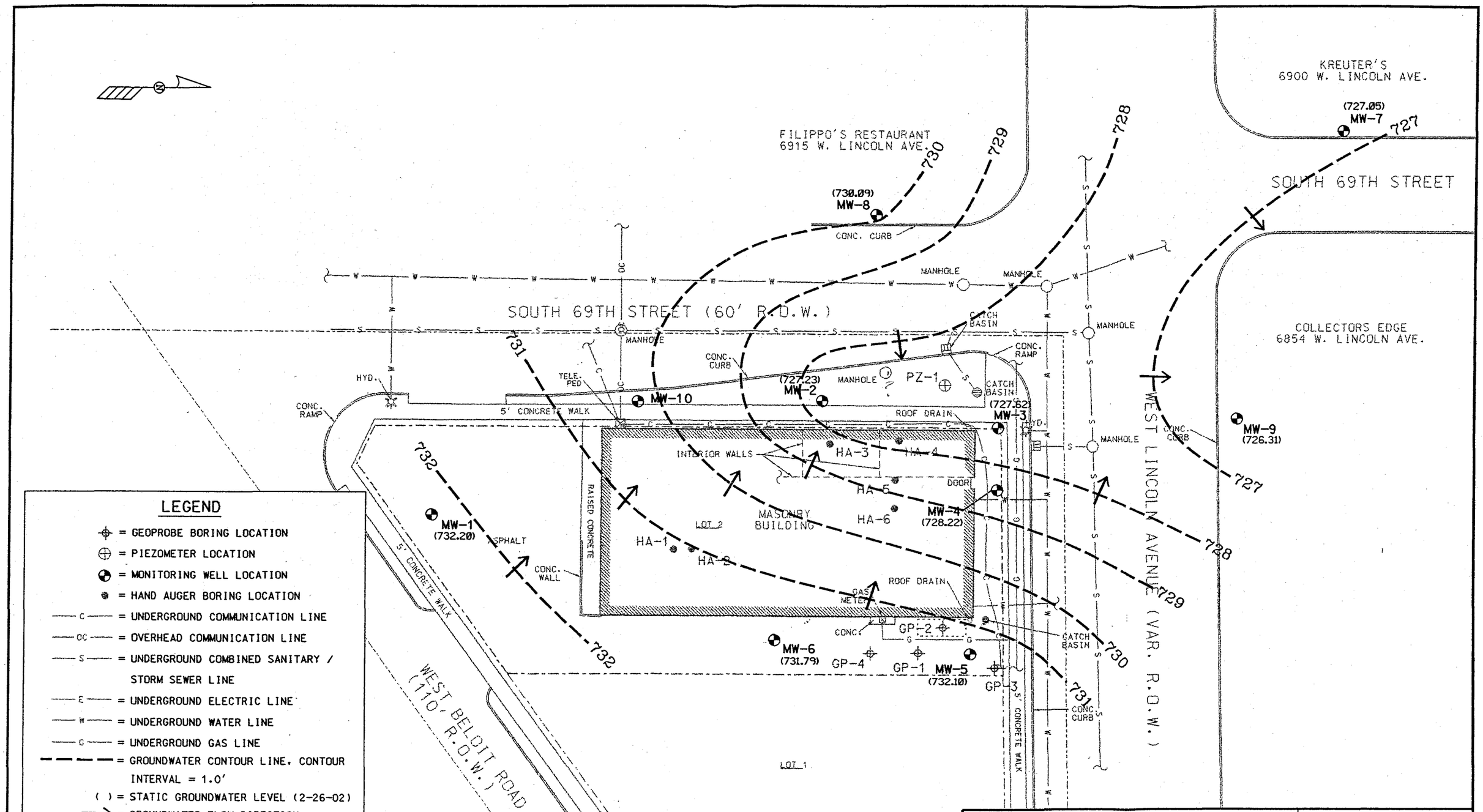
NORMAN GETZ PROPERTY
6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-27-02	DR. BY: BEB	DR.# 6515-009	SCALE: SEE NOTES

GEOLOGIC CROSS SECTION
(B - B')

FIGURE 5



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- —— W —— = UNDERGROUND WATER LINE
- —— G —— = UNDERGROUND GAS LINE
- – – – – = GROUNDWATER CONTOUR LINE, CONTOUR INTERVAL = 1.0'
- ( ) = STATIC GROUNDWATER LEVEL (2-26-02)
- → = GROUNDWATER FLOW DIRECTION

GRAPHIC SCALE

0 15 30 60

NOTES:
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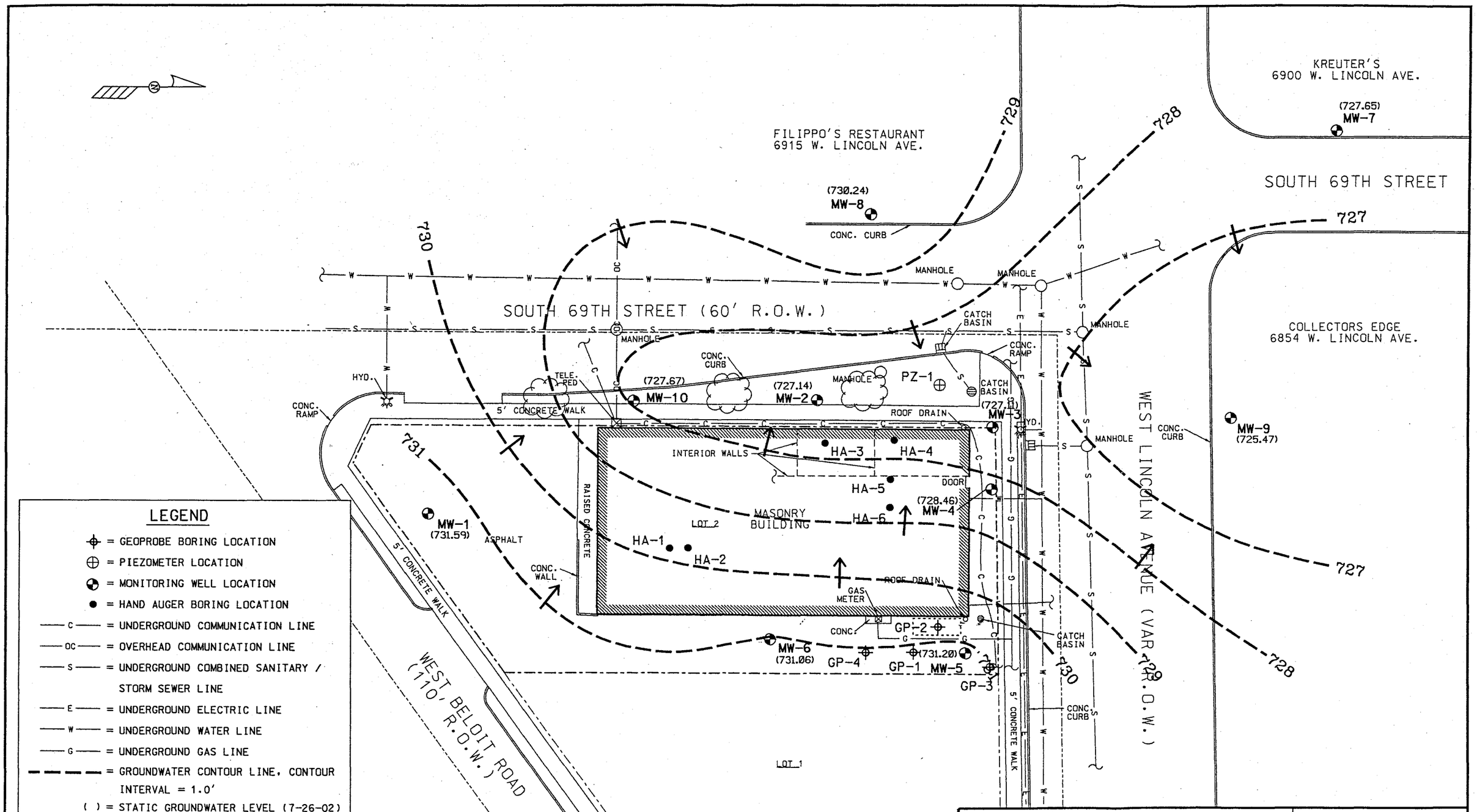
SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-27-02	DR. BY: BEB	DR.# 6515-007	SCALE: 1" = 30'

GROUNDWATER CONTOUR MAP
(2-26-02)

FIGURE 6



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NORMAN GETZ PROPERTY

6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 8-5-02	DR. BY: TMM	DR.# 6515-010	SCALE: 1" = 30'

GROUNDWATER CONTOUR MAP (7-26-02)

FIGURE 7

FILIPPO'S RESTAURANT
6915 W. LINCOLN AVE.

KREUTER'S
6900 W. LINCOLN AVE.

SOUTH 69TH STREET

SOUTH 69TH STREET (60' R.O.W.)

WEST LINCOLN AVENUE (VAR. R.O.W.)

WEST BELOIT ROAD (110' R.O.W.)

MW-2		
DEPTH	6-8	12-14
Chloromethane	[114]	[83.5]
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[1,370]	[118,000]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

HA-3		
DEPTH	5-7	7-9
Chloromethane	<25	<25
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[41,600]	[24,200]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

MW-10		
DEPTH	3-5	7-9
Chloromethane	<25	<25
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[139]	[1,690]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

HA-1		
DEPTH	1-3	7-9
Chloromethane	<25	<25
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[2,200]	[149]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

MW-1		
DEPTH	2-4	6-8
Chloromethane	<25	[75]
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[173]	<25
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<15	<25

MW-8	
DEPTH	6-8
Chloromethane	<25
cis-1,2-Dichloroethene	<25
trans-1,2-Dichloroethene	<25
Tetrachloroethene	<25
1,1,2-Trichloroethane	<25
Trichloroethene	<25
Vinyl Chloride	<25

HA-4	
DEPTH	3-5
Chloromethane	<25
cis-1,2-Dichloroethene	<25
trans-1,2-Dichloroethene	<25
Tetrachloroethene	[5,860]
1,1,2-Trichloroethane	<25
Trichloroethene	<25
Vinyl Chloride	<25

MW-7	
DEPTH	6-8
Chloromethane	<25
cis-1,2-Dichloroethene	<25
trans-1,2-Dichloroethene	<25
Tetrachloroethene	<25
1,1,2-Trichloroethane	<25
Trichloroethene	<25
Vinyl Chloride	<25

MW-3		
DEPTH	0-2	6-8
Chloromethane	<25	<1,000
cis-1,2-Dichloroethene	<25	<1,000
trans-1,2-Dichloroethene	<25	<1,000
Tetrachloroethene	[42,200]	[348,000]
1,1,2-Trichloroethane	<25	<1,000
Trichloroethene	128	<1,000
Vinyl Chloride	<25	<1,000

HA-5		
DEPTH	2-4	6-7
Chloromethane	<25	<25
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[34,700]	[19,100]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

MW-9	
DEPTH	6-8
Chloromethane	<25
cis-1,2-Dichloroethene	<25
trans-1,2-Dichloroethene	<25
Tetrachloroethene	<25
1,1,2-Trichloroethane	<25
Trichloroethene	<25
Vinyl Chloride	<25

MW-4		
DEPTH	0-2	6-8
Chloromethane	<25	[128]
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	43.4]
Tetrachloroethene	[1,830]	[3,080]
1,1,2-Trichloroethane	<25	[116]
Trichloroethene	<25	[131]
Vinyl Chloride	<25	<25

HA-6		
DEPTH	2-4	6-7
Chloromethane	<25	<25
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[10,600]	[11,900]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

HA-2	
DEPTH	3-5
Chloromethane	<25
cis-1,2-Dichloroethene	<25
trans-1,2-Dichloroethene	<25
Tetrachloroethene	[665]
1,1,2-Trichloroethane	<25
Trichloroethene	<25
Vinyl Chloride	<25

MW-6		
DEPTH	4-6	8-10
Chloromethane	[69.6]	<25
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	[140]	[159]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

GP-1		
DEPTH	2-4	4-6
Chloromethane	<25	<100
cis-1,2-Dichloroethene	<25	<100
trans-1,2-Dichloroethene	<25	<100
Tetrachloroethene	<25	<100
1,1,2-Trichloroethane	<25	<100
Trichloroethene	<25	<100
Vinyl Chloride	<25	<100

MW-5		
DEPTH	4-6	10-12
Chloromethane	[87]	[67.2]
cis-1,2-Dichloroethene	<25	<25
trans-1,2-Dichloroethene	<25	<25
Tetrachloroethene	<25	[94]
1,1,2-Trichloroethane	<25	<25
Trichloroethene	<25	<25
Vinyl Chloride	<25	<25

LEGEND

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NOTES:
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3. ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER KILOGRAM (ug/kg).
4. [ ] = DETECTED ABOVE LABORATORY METHOD DETECTION LIMIT.

GRAPHIC SCALE
0 15 30 60

NORMAN GETZ PROPERTY
6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-25-02 | DR. BY: TMM | DR.# 6515-011 | SCALE: 1" = 30'

SOIL QUALITY MAP

FIGURE 8

FILIPPO'S RESTAURANT
6915 W. LINCOLN AVE.

KREUTER'S
6900 W. LINCOLN AVE.

SOUTH 69TH STREET

SOUTH 69TH STREET (60' R.O.W.)

WEST LINCOLN AVENUE (VAR. R.O.W.)

WEST BELOIT ROAD (110' R.O.W.)

MW-2			
DATE	11-28-01	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	(8.23)	(6.32)
trans-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
Tetrachloroethene	[5,910]	[7,260]	[2,870]
Trichloroethene	(1.25)	(3.31)	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17	<Ø.17

MW-8		
DATE	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	<Ø.5
Trichloroethene	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17

PZ-1		
DATE	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	(4.30)
Trichloroethene	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17

MW-7		
DATE	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	<Ø.5
Trichloroethene	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17

MW-3			
DATE	11-28-01	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	[121]	[185]	[229]
trans-1,2-Dichloroethene	1.95	3.44	2.7
Tetrachloroethene	[16,500]	[17,800]	[14,300]
Trichloroethene	[35.6]	[46.6	[65.4]
Vinyl Chloride	<Ø.17	[18.5]	[5.45]

MW-10	
DATE	7-26-02
Benzene	<Ø.5
cis-1,2-Dichloroethene	3.70
trans-1,2-Dichloroethene	<Ø.5
Tetrachloroethene	[1,070]
Trichloroethene	[5.19]
Vinyl Chloride	<Ø.17

MW-1			
DATE	11-28-01	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	<Ø.5	<Ø.5
Trichloroethene	<Ø.5	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17	<Ø.17

MW-9		
DATE	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	<Ø.5
Trichloroethene	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17

MW-4			
DATE	11-28-01	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
Tetrachloroethene	(3.97)	(3.90)	(4.34)
Trichloroethene	<Ø.5	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17	<Ø.17

MW-6			
DATE	11-28-01	2-1-02	7-26-02
Benzene	<Ø.5	<Ø.5	<Ø.5
cis-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	<Ø.5	<Ø.5
Trichloroethene	<Ø.5	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17	<Ø.17

MW-5			
DATE	11-28-01	2-1-02	7-26-02
Benzene	<Ø.5	[5.82]	[15.7]
cis-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
trans-1,2-Dichloroethene	<Ø.5	<Ø.5	<Ø.5
Tetrachloroethene	<Ø.5	<Ø.5	<Ø.5
Trichloroethene	<Ø.5	<Ø.5	<Ø.5
Vinyl Chloride	<Ø.17	<Ø.17	<Ø.17

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4. [ ] = DETECTED ABOVE CHAPTER NR 140 ES
   ( ) = DETECTED ABOVE CHAPTER NR140 PAL

GRAPHIC SCALE
0 15 30 60

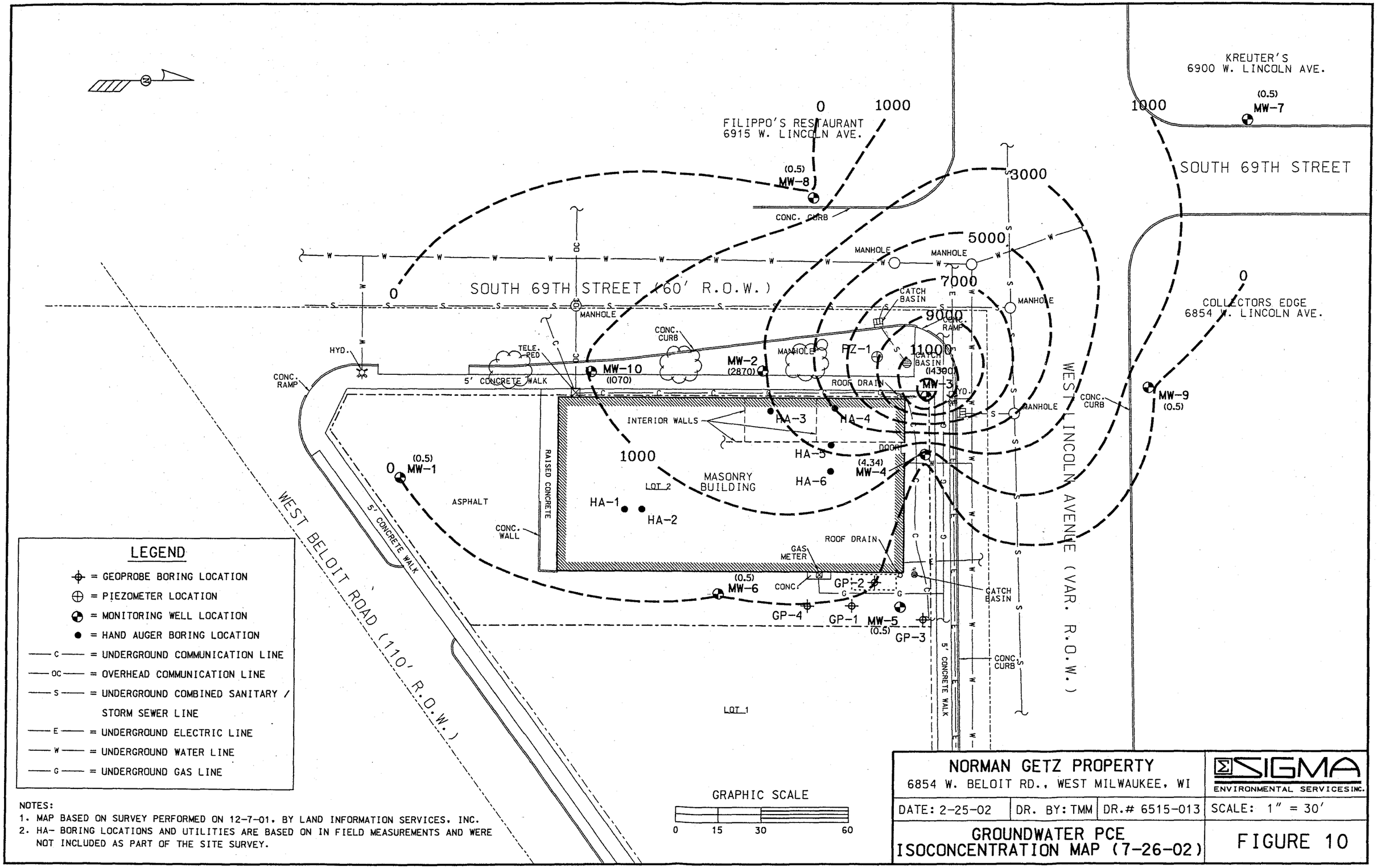
NORMAN GETZ PROPERTY
6854 W. BELOIT RD., WEST MILWAUKEE, WI

SIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-25-02	DR. BY: BEB	DR.# 6515-012	SCALE: 1" = 30'

GROUNDWATER QUALITY MAP

FIGURE 9



LEGEND

- ⌖ = GEOPROBE BORING LOCATION
- ⊕ = PIEZOMETER LOCATION
- ◒ = MONITORING WELL LOCATION
- ● = HAND AUGER BORING LOCATION
- —— C —— = UNDERGROUND COMMUNICATION LINE
- —— OC —— = OVERHEAD COMMUNICATION LINE
- —— S —— = UNDERGROUND COMBINED SANITARY / STORM SEWER LINE
- —— E —— = UNDERGROUND ELECTRIC LINE
- —— W —— = UNDERGROUND WATER LINE
- —— G —— = UNDERGROUND GAS LINE

NOTES:
1. MAP BASED ON SURVEY PERFORMED ON 12-7-01. BY LAND INFORMATION SERVICES, INC.
2. HA- BORING LOCATIONS AND UTILITIES ARE BASED ON IN FIELD MEASUREMENTS AND WERE NOT INCLUDED AS PART OF THE SITE SURVEY.

GRAPHIC SCALE
0 15 30 60

NORMAN GETZ PROPERTY
6854 W. BELOIT RD., WEST MILWAUKEE, WI

ΣSIGMA ENVIRONMENTAL SERVICES INC.

DATE: 2-25-02	DR. BY: TMM	DR.# 6515-013	SCALE: 1" = 30'

GROUNDWATER PCE ISOCONCENTRATION MAP (7-26-02)

FIGURE 10

APPENDIX A

SOIL BORING LOG FORMS
(WDNR FORM 400-122)

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**GP-1**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM / DD / YY)	Date Drilling Completed (MM / DD / YY)	Drilling Method
Sigma Environmental **Marty Nessman**	05 / 01 / 01	05 / 01 / 01	**Geoprobe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			_____ Feet MSL	_____ Feet MSL	**2.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	41	**City of West Allis**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	NR		1.0	**0.0 to 2.0 No Recovery - Pushed Rock**										
2	22		2.0 3.0	**2.0 to 4.0 Topsoil-Silty with organics.**	ML			20.1		Dry				No Odor
3	18		4.0 5.0	**4.0 to 6.0 Sandy CLAY, moist, turning soft and gray at 5' bgs.**	SC			42.3		M/S				Odor
4	22		6.0 7.0	**6.0 to 7.0 12" of sandy CLAY with gravel, saturated with apparent product on water.**	SC			Prod		Sat.				Odor
				7.0 to 9.0 12" of silty CLAY, gray, stiff, sl. plastic, with orange mottling.	CL									
5	22		8.0 9.0					7.4		Wet				No Odor
				9.0 to 10.0 Sandy SILT, gray medium stiff.	SM									
			10.0 11.0 12.0	**End of boring.**										

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

Signature _____

Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-1**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Sigma Environmental **Marty Nessman**	11 / 09 / 01 (MM DD YY)	11 / 09 / 01 (MM DD YY)	**Geoprobe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-1	_____ Feet MSL	_____ Feet MSL	**2.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
MW-1	24		1.0	**0.0 to 2.0 Brown Clayey Silt 12" of Gravel Fill 10YR5/3**	ML			0		D				
	24		2.0	**2.0 to 4.0 Same as Silt above**	ML			0.1		D				
	24		4.0	**4.0 to 6.0 Gray Clayey Silt w/ Trace Gravel 10YR5/1**	ML			0.5		D				
	24		6.0	**6.0 to 8.0 Same as above**	ML			0.9		M/W				
	24		8.0	**8.0 to 10.0 Same as above**	ML			0.5		W/S				
	24		10.0	**10.0 to 12.0 Same as above**	ML			0.5		W/S				
			11.0											
			12.0											

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92

Boring Number **MW-1** Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	24		12.0	**12.0 to 14.0 Same as above**	ML			0.5		W/S				
	24		14.0	**14.0 to 16.0 Clayey Silt Grades to Sandy Silt w/ Trace Gravel**	SM			0.5		W/S				
			16.0	**End of Boring 16' b.g.s.**										
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-2**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Sigma Environmental **Marty Nessman**	11 / 09 / 01 (MM DD YY)	11 / 09 / 01 (MM DD YY)	**Geoprobe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-2	_____ Feet MSL	_____ Feet MSL	**2.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E

Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
MW-2	24		0.0	**0.0 to 2.0 Black Topsoil w/ Organics**	OL			1.3		D				
	24		2.0	**2.0 to 4.0 Brown Clayey Silt**	ML			0		D/M				
	24		4.0	**4.0 to 6.0 Sandy Silt w/ Trace Brown Clay**	SM			0.5		M				
	24		6.0	**6.0 to 8.0 Fine Sandy Silt**	SW			0.5		W/S				
	24		8.0	**8.0 to 10.0 Gray Sand w/ 4" of Clay in Botttom**	SW			11.3		S				
	24		10.0	**10.0 to 12.0 Gray Stiff Clay**	CL			12.4		S				
			12.0											

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

Signature _____

Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources
Boring Number **MW-2**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24		13.0	**12.0 to 14.0 Gray Sand**	SW			4.2		S				
	24		14.0	**14.0 to 16.0 Gray Silty Fine Sand**	SP			1.7		S				
			16.0	**End of Boring 16 b.g.s.**										
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-3**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Sigma Environmental **Marty Nessman**	11 / 09 / 01 (MM DD YY)	11 / 09 / 01 (MM DD YY)	**Geoprobe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-3	_____ Feet MSL	_____ Feet MSL	**2.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
Mw-3	24		0	**0.0 to 2.0 Black Organic Topsoil**	OL			37		D				
	24		2	**2.0 to 4.0 Brown Clayey Silt 10YR5/3**	ML			69		D/M				
	24		4	**4.0 to 6.0 Fine Sand, Well Graded, Gray**	SP			73		W				
	24		6	**6.0 to 8.0 Fine to Coarse Brown Sand w/ some Gravel**	SP			155		W				
	24		8	**8.0 to 10.0 Coarse Sand to Gray Stiff Clay**	CL			93		W				
	24		10	**10.0 to 12.0 Same as Above**	CL			2.9		W/S				
			12											

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92

Boring Number **MW-3** Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	24		13.0	**12.0 to 14.0 Poorly Sorted Coarse Sand**	SW			53		S				
	24		14.0	**14.0 to 16.0 Same w/ 6" Silty Clay**	SW			5		S				
			16.0	**End of Boring 16' b.g.s.**										
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-4**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM / DD / YY)	Date Drilling Completed (MM / DD / YY)	Drilling Method
Sigma Environmental **Marty Nessman**	**11 / 09 / 01**	**11 / 09 / 01**	**Geoprobe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-4	_____ Feet MSL	_____ Feet MSL	**2.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
MW-4	14		0.0 to 2.0	**Black over Brown Silty Topsoil**	OL			0.5		D				
	20		2.0 to 4.0	**Black Organic Silt**	OL			0.1		D				
	20		4.0 to 6.0	**Sandy Silt, Brown**	ML			0.1		D/M				
	24		6.0 to 8.0	**Stiff, Brown Silt**	ML			1.3		M				
	24		8.0 to 10.0	**Gray Stiff Silty Clay**	CL			0.5		W				
	24		10.0 to 12.0	**Same as Above w/ Trace Gravel**	CL			0.5		W				

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92

Boring Number **MW-4** Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	24		12.0	**12.0 to 14.0 Same as above**	CL			0.9		W/S				
	24		14.0	**14.0 to 16.0 Same as above**	CL			0		W?S				
			16.0	**End of Boring 16' b.g.s.**										

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-5**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM / DD / YY)	Date Drilling Completed (MM / DD / YY)	Drilling Method
Sigma Environmental **Marty Nessman**	**11 / 09 / 01**	**11 / 09 / 01**	**Geoprobe**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-5	_____ Feet MSL	_____ Feet MSL	**2.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
_____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
MW-5	24		0.0 to 2.0	**Dark Gray Organic Clayey Silt 10yr5/2**	ML			0		D				
	24		2.0 to 4.0	**Same as above**	OL			102		D				
	24		4.0 to 6.0	**Black Silt w/ Oily Sheen, Odor**	ML			120		M				
	24		6.0 to 8.0	**Brown Clayey Silt w/ Gray Mottling 10YR5/3**	ML			2,4		M				
	12		8.0 to 10.0	**Stiff Gray Clayey Silt 10YR5/1**	CL			4.4		M				
	12		10.0 to 12.0	**Same as above**	CL			8.2		M				

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92

Boring Number **MW-5** Use only as an attachment to Form 4400-122.

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	0		13.0	**12.0 to 14.0 No Recovery**										
	0		14.0	**14.0 to 16.0 No Recovery**										
			16.0	**End of Boring 16' b.g.s.**										
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources
Boring Number **MW-6**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample: Number and Type	Sample: Length Att. & Recovered (in.)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
	12		12.0	**12.0 to 14.0 Same as above**	ML			0.5		S				
	0		14.0	**14.0 to 16.0 No Recovery**										
			16.0	**End of Boring 16' b.g.s.**										
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-7**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mid America	01 / 18 / 02 (MM DD YY)	01 / 18 / 02 (MM DD YY)	**Hollow Stem Auger**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-7	_____ Feet MSL	_____ Feet MSL	**8.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	0		1.0	**0.0 to 2.0 no sample**										
2	0	6 5 5 7	2.0 3.0	**2.0 to 4.0 no recovery**										
3	12	3 4 5 6	4.0 5.0	**4.0 to 6.0 grayish brown (10yr5/2) sandy clay, trace gravel, moist**	CL			0.0						
4	22	4 8 10 13	6.0 7.0	**6.0 to 8.0 brown (10yr4/3) silty clay, mottling, trace coarse sand, moist to wet**	CL			0.0						
5	22	3 7 9 13	8.0 9.0	**8.0 to 10.0 brown (10yr4/3) clayey silt, trace gravel, saturated**	ML			0.0						
6	24	4 6 10 14	10.0 11.0 12.0	**10.0 to 14.0 dark gray (10yr4/1)silty clay, mottling, trace gravel, saturated**	CL			0.0						

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

Signature _____

Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

This form is authorized by Chapters 144, 147 and 162, Wis. Stats. Completion of this report is mandatory. Penalties: Forfeit not less than $10 nor more than $5,000 for each violation. Fined not less than $10 or more than $100 or imprisoned not less than 30 days or both for each violation. Each day of continued violation is a separate offense, pursuant to ss 144.99 and 162.06, Wis. Stats.

State of Wisconsin
Department of Natural Resources
Boring Number **MW-7**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7	24	4 8 12 13	13.0	**End of boring, monitoring well installed at 15 feet bgs**				0.0						
			14.0											
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-8**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mid America	**01 / 17 / 02** (MM DD YY)	**01 / 17 / 02** (MM DD YY)	**Hollow Stem Auger**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-8	_____ Feet MSL	_____ Feet MSL	**8.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	0		1.0	**0.0 to 2.0 no recovery**										
2	12	3 4 5 6	2.0 3.0	**2.0 to 3.8 gray (10yr5/1) clay, mottling, saturated**	CL			0.0						
3	18	3 3 3 5	4.0 5.0	**3.8 to 4.0 dark gray (10yr3/1) clay, saturated** **4.0 to 6.0 dark gray (10yr3/1) silty clay, soft, wet**	CL CL			0.0						
4	24	3 7 6 9	6.0 7.0	**6.0 to 8.0 grayish brown (10yr5/2) silty clay, mottling, soft, wet**	CL			0.0						
5	24	3 5 7 9	8.0 9.0	**8.0 to 12.0 grayish brown (10yr4/2) silty clay, wet**	CL			0.0						
6	24	2 7 9 15	10.0 11.0	**trace gravel**				0.0						
			12.0											

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources
Boring Number **MW-8**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7	22	4 7 14 12	13.0	**12.0 to 14.0 dark grayish brown (10yr4/2)silty clay, trace gravel, wet**	CL			0.0						
			14.0	**End of boring, monitoring well installed at 15 feet bgs**										
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-9**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Mid America	01 / 18 / 02 (MM DD YY)	01 / 18 / 02 (MM DD YY)	**Hollow Stem Auger**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-9	Feet MSL	Feet MSL	**8.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
Feet ☐ S Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1	0		1.0	**0.0 to 2.0 no recovery**										
2	1	4 5 8 9	2.0 / 3.0	**2.0 to 4.0 coarse to fine gravel, coarse sand, no sample taken**	GW									
3	10	3 4 4 4	4.0 / 5.0	**4.0 to 6.0 grayish brown (10yr4/2) sandy clay, trace fine to coarse sand, trace gravel, moist**	CL			0.0						
4	10	3 5 8 10	6.0 / 7.0	**6.0 to 9.5 grayish brown (10yr4/2) fine to coarse sand, trace gravel, well sorted, saturated**	GP			0.0						
5	20	2 8 11 10	8.0 / 9.0					0.0						
6	22	2 5 10 10	10.0 / 11.0	**9.5 to 10.0 grayish brown (10yr5/2) silty sand, trace gravel, wet**	SM			0.0						
				10.0 to 12.0 grayish brown (10yr5/2) silty sand, trace mottling	SM									
			12.0											

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

Signature

Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources
Boring Number **MW-9**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
7	20	3 6 11 13	13.0	**12.0 to 14.0 dark gray (10yr4/1) clayey silt, trace gravel, wet**	ML			0.0						
			14.0	**end of boring, monitoring well installed at 15 feet bgs**										
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**MW-10**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started	Date Drilling Completed	Drilling Method
Badger State Jim and Terry	07 / 19 / 02 (MM DD YY)	07 / 19 / 02 (MM DD YY)	**Hollow Stem Auger**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-10	_____ Feet MSL	_____ Feet MSL	**8.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0.0 to 1.0 Not sampled.										
1	18	6 4 3 8	1.0 – 2.0	**1.0 to 3.0 Silt and sand topsoil. Black. No obvious odor.**	SM			0		Dry				
2	20	4 4 5 6	3.0 – 4.0	**3.0 to 5.0 Clayey SILT with trace sand, no obvious odor, black.**	ML			0		Dry				
3	24	5 6 6 8	5.0 – 6.0	**5.0 to 7.0 Sandy SILT, tr. clay, brown (10YR5/3:D).**	ML			0		Dry				
4	24	6 5 5 4	7.0 – 8.0	**7.0 to 9.0 Poorly sorted fine to coarse SAND with silt.**	SM			5.1		Dry				
5	24	9 9 9 10	9.0 – 10.0	**9.0 to 10.5 18 inches of Poorly sorted fine to coarse SAND, angular, saturated.**	SW			20.4		Sat				
				10.5 to 11.0 over 6 inches of silty CLAY, gray, stiff.	CL									
6	18	18 24 28 26	11.0 – 12.0					1.7		Wet				

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources
Boring Number **MW-10**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13.0											
7	19	9 15 28 17	14.0	**13.0 to 15.0 Silty CLAY, gray, stiff with saturated sandy CLAY seams.**	CL			0		Wet				
8	24	9 12 12 15	15.0 16.0 17.0	**15.0 to 17.0 Silty CLAY, stiff, trace gravel in matrix. Gray.** **End of Boring.**	CL			0		Wet				
			18.0											
			19.0											
			20.0											
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources

Route To:
☐ Solid Waste ☐ Haz. Waste
☐ Emergency Response ☒ Underground Tanks
☐ Wastewater ☐ Water Resources
☐ Superfund ☐ Other _____

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 5-92

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Getz Property		**PZ-1**

Boring Drilled By (Firm name and name of crew chief)	Date Drilling Started (MM / DD / YY)	Date Drilling Completed (MM / DD / YY)	Drilling Method
Mid America	**01 / 17 / 02**	**01 / 18 / 02**	**Hollow Stem Auger**

DNR Facility Well No.	WI Unique Well No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		PZ-1	_____ Feet MSL	_____ Feet MSL	**8.00** inches

Boring Location
State Plane _____ N, _____ E S
NW 1/4 of **NE** 1/4 of Section **10**, T **6** N, R **21** E
Lat ° ' "
Long ° ' "

Local Grid Location (If applicable)
☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

County	DNR County Code	Civil Town/City/ or Village
Milwaukee	**41**	**City of West Allis 6**

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0 11.0 12.0	**0.0 to 20.0 blind drilled to 20 feet bgs**										

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

Signature Mary Cliffe

Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92

Boring Number **PZ-1** Use only as an attachment to Form 4400-122.

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			13.0											
			14.0											
			15.0											
			16.0											
			17.0											
			18.0											
			19.0											
1			20.0	**20.0 to 35.0 observations made from auger cutting during drilling. gray clayey silt, wet to saturated**	ML									
			21.0											
			22.0											
			23.0											
			24.0											
			25.0											
			26.0											
			27.0											
			28.0											
			29.0											
			30.0											
			31.0											
			32.0											

Getz Property
6515

State of Wisconsin
Department of Natural Resources
Boring Number **PZ-1**

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A Rev. 5-92
Use only as an attachment to Form 4400-122.

Sample										Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet	Soil/Rock Description And Geological Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33.0											
			34.0											
			35.0	**End of boring, peizometer installed at 35 feet bgs**										
			36.0											
			37.0											
			38.0											
			39.0											
			40.0											
			41.0											
			42.0											
			43.0											
			44.0											
			45.0											
			46.0											
			47.0											
			48.0											
			49.0											
			50.0											
			51.0											
			52.0											

Getz Property
6515

APPENDIX B

BOREHOLE ABANDONMENT FORMS
(WDNR FORM 3300-5B)

State of Wisconsin
Department of Natural Resources

WELL/DRILLHOLE/BOREHOLE ABANDONMENT

Form 3300-5B Rev. 3-94

All abandonment work shall be performed in accordance with the provisions of Chapters NR 111, NR 1 Admin. Code, whichever is applicable. Also, see instructions on back.

(1) GENERAL INFORMATION

Well/drillhole/Borehole Location

County: **Milwaukee**

NW 1/4 of NE 1/4 Sec. 10 ; T. 6 N; R. 21 [X] E [ ] W

(If applicable) Gov't Lot ____ Grid Number ____

Grid Location ____ ft. [ ] N. [ ] S., ____ ft. [ ] E. [ ] W.

Civil Town Name

Street Address of Well

City, Village

(2) FACILITY NAME

Original Well Owner (If Known)

Present Well Owner: **Getz Property**

Street or Route: **6854 W. Beloit Road**

City, State, Zip Code: **West Allis, WI**

Facility Well No. and/or Name (If Applicable): **GP-1**

WI Unique Well No: _ _ _ _ _ _

Reason For Abandonment: **Soil boring.**

Date of Abandonment: **05/01/01**

WELL/DRILLHOLE/BOREHOLE INFORMATION

(3) Original Well/Drillhole/Borehole Construction Completed On

(Date) **05/01/01**

[ ] Monitoring Well
[ ] Water Well
[ ] Drillhole
[ ] Borehole

Construction Report Available? [ ] Yes [ ] No

Construction Type:
[ ] Drilled [ ] Driven (Sandpoint) [ ] Dug
[ ] Other (Specify)

Formation Type:
[ ] Unconsolidated Formation [ ] Bedrock

Total Well Depth (ft.) ____ (From groundsurface)
Casing Diameter (ins.) ____
Casing Depth (ft.) ____

Lower Drillhole Diameter (in.) ____

Was Well Annular Space Grouted? [ ] Yes [ ] No [ ] Unknown
If Yes, To What Depth? ____ Feet

(4) Depth to Water (Feet) ____

Pump & Piping Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Liner(s) Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Screen Removed?	[ ] Yes	[ ] No	[X] Not Applicable
Casing Left in Place?	[ ] Yes	[ ] No	

If No, Explain ____

Was Casing Cut Off Below Surface?	[ ] Yes	[ ] No
Did Sealing Material Rise to Surface?	[ ] Yes	[ ] No
Did Material Settle After 24 Hours?	[ ] Yes	[ ] No
If Yes, Was Hole Retopped?	[ ] Yes	[ ] No

(5) Required Method of Placing Sealing Material

[ ] Conductor Pipe-Gravity [ ] Conductor Pipe-Pumped
[ ] Dump Bailer [X] Other (Explain) **Gravity**

(6) Sealing Materials

For monitoring wells and monitoring well boreholes only

[ ] Neat Cement Grout
[ ] Sand-Cement (Concrete) Grout
[ ] Concrete
[ ] Clay-Sand Slurry
[ ] Bentonite-Sand Slurry
[ ] Chipped Bentonite
[ ] Bentonite Pellets
[X] Granular Bentonite
[ ] Bentonite- Cement Grout

(7)

Sealing Material Used	From (Ft.)	To (Ft.)	No. Yards, Sacks Sealant or Volume (Circle One)	Mix Ratio or Mud Weight
Granular Bentonite	Surface	**10.0**		

8) Comments: ____

9) Name of Person or Firm Doing Sealing Work: **Sigma Environmental**

Signature of Person Doing Work: Martin Dow
Date Signed: 5/4/01

Street or Route: **220 E. Ryan Road**
Telephone Number: **(414)-768-7144**

City, State, Zip Code: **Oak Creek, WI 53154**

(10) FOR DNR OR COUNTY USE ONLY

Date Received/Inspected	District/County
Reviewer/Inspector	[ ] Complying Work [ ] Noncomplying Work
Follow-up Necessary	

6515

DNR/COUNTY

APPENDIX C

MONITORING WELL CONSTRUCTION FORMS
(WDNR FORM 4400-113A)

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: **MW-1**
Facility License, Permit or Monitoring Number: _ _ _ _ _ _ _	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or	Wis. Unique Well Number: _____ DNR Well Number: _____
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	St. Plane _____ ft. N, _____ ft. E.	Date Well Installed: 1 1 / 0 9 / 0 1 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ft.	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☒ E. ☐ W.	Well Installed By: (Person's Name and Firm): **Sigma Environmental**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	**Marty Nessman**

A. Protective pipe, top elevation _ _ _ _ _ _ ft. MSL

B. Well casing, top elevation _ _ _ _ _ _ ft. MSL

C. Land surface elevation _ _ _ _ _ ft. MSL

D. Surface seal, bottom _ _ _ _ _ ft. MSL or _ _ _ _ ft.

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

13. Sieve analysis attached? ☐ 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):
_____

E. Bentonite seal, top _ _ _ _ _ ft. MSL or _ _ 1.0 ft.

F. Fine sand, top _ _ _ _ _ ft. MSL or _ _ 2.0 ft.

G. Filter pack, top _ _ _ _ _ ft. MSL or _ _ 5.0 ft.

H. Screen joint, top _ _ _ _ _ ft. MSL or _ _ 5.0 ft.

I. Well bottom _ _ _ _ _ ft. MSL or _ _ 15.0 ft.

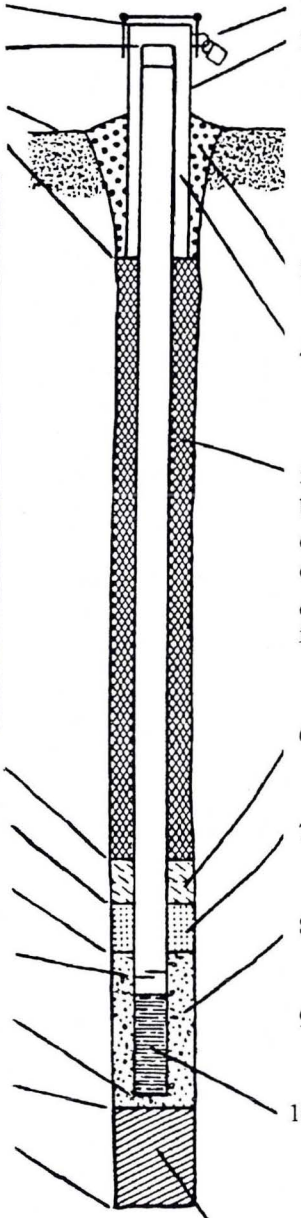
J. Filter pack, bottom _ _ _ _ _ ft. MSL or _ _ 16.0 ft.

K. Borehole, bottom _ _ _ _ _ ft. MSL or _ _ 16.0 ft.

L. Borehole, diameter _ 8.00 in.

M. O.D. well casing _ 2.10 in.

N. I.D. well casing _ 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _ 12.00 in.
b. Length: _ 1.0 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; Annular space seal ☐ ___; Other ☐ ___
_____

5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐ ___

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Sand, #30**
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Sand, #60**
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 **Timco**
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ ___
_____

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144, 147 & 160, Wis Stats, and ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than $10, nor more than $10,000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

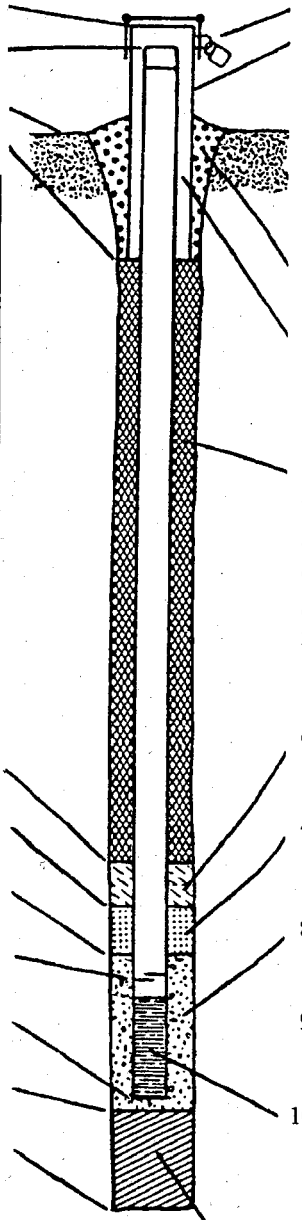
6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name **Getz Property**	Local Grid Location of Well _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name **MW-2**
Facility License, Permit or Monitoring Number _____	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or	Wis. Unique Well Number DNR Well Number _____ _____
Type of Well Water Table Observation Well ☐ 11 Piezometer ☐ 12	St. Plane _____ ft. N, _____ ft. E.	Date Well Installed 1 1 / 0 9 / 0 1 m m d d y y
Distance Well Is From Waste/Source Boundary _____ ft.	Section Location of Waste/Source ☒ E. NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☐ W.	Well Installed By: (Person's Name and Firm) **Sigma Environmental** **Marty Nessman**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	



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

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

13. Sieve analysis attached? ☐ 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):
_____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.
F. Fine sand, top _____ ft. MSL or **2.0** ft.
G. Filter pack, top _____ ft. MSL or **5.0** ft.
H. Screen joint, top _____ ft. MSL or **5.0** ft.
I. Well bottom _____ ft. MSL or **15.0** ft.
J. Filter pack, bottom _____ ft. MSL or **16.0** ft.
K. Borehole, bottom _____ ft. MSL or **16.0** ft.
L. Borehole, diameter **8.00** in.
M. O.D. well casing **2.10** in.
N. I.D. well casing **2.00** in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: **12.00** in.
b. Length: **1.0** 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
Annular space seal ☐
_____ Other ☐
5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Sand, #30**
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Sand, #60**
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 **Timco**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None ☒ 14
_____ Other ☐

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

Signature	Firm **Sigma Environmental Services, Inc.** 220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

ease complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats, d ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than $10, nor more than 000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than $10,000 for each y of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: **MW-3**
Facility License, Permit or Monitoring Number:	Grid Origin Location: Lat. ____ Long. ____ or St. Plane ____ ft. N, ____ ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	Section Location of Waste/Source: **NW** 1/4 of **NE** 1/4 of Sec. **10**, T. **6** N, R. **21** ☒ E. ☐ W.	Date Well Installed: **1 1 / 0 9 / 0 1** (m m d d y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): **Sigma Environmental**; **Marty Nessman**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

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

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

13. Sieve analysis attached? ☐ Yes ☒ No

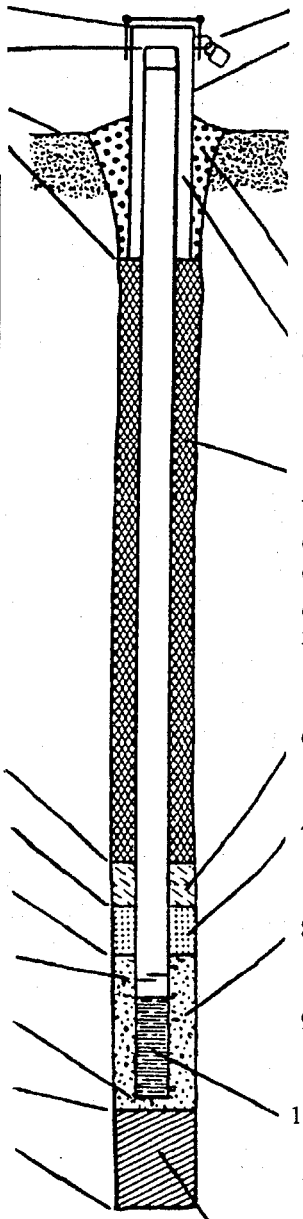
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

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): ____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.
F. Fine sand, top _____ ft. MSL or **2.0** ft.
G. Filter pack, top _____ ft. MSL or **5.0** ft.
H. Screen joint, top _____ ft. MSL or **5.0** ft.
I. Well bottom _____ ft. MSL or **15.0** ft.
J. Filter pack, bottom _____ ft. MSL or **16.0** ft.
K. Borehole, bottom _____ ft. MSL or **16.0** ft.
L. Borehole, diameter **8.00** in.
M. O.D. well casing **2.10** in.
N. I.D. well casing **2.00** in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: **12.00** in.
b. Length: **1.0** 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; Annular space seal ☐ ____; Other ☐ ____
5. Annular space seal: a. Granular 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 pellets ☐ 32
c. ____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Sand, #30** ____
b. Volume added ____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Sand, #60** ____
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 **Timco**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature: _____ Firm: **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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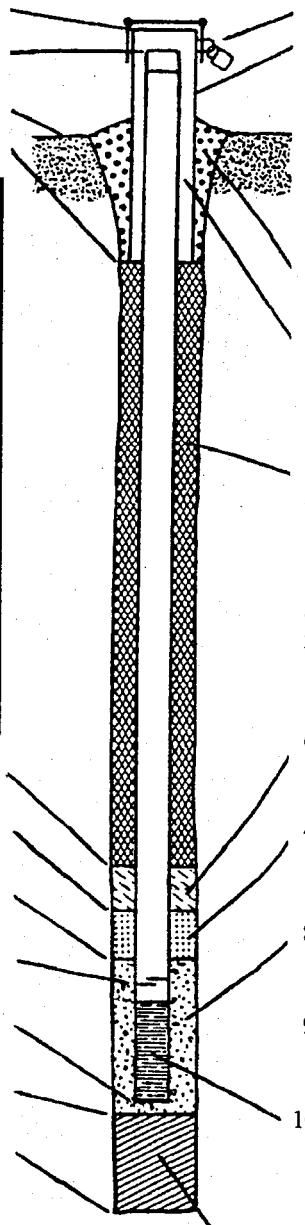
6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: **MW-4**
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane ____ ft. N, ____ ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	Section Location of Waste/Source: ☒ E. NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☐ W.	Date Well Installed: 1 1 / 0 9 / 0 1 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): **Sigma Environmental**; **Marty Nessman**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		



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

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

13. Sieve analysis attached? ☐ 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): _____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.
F. Fine sand, top _____ ft. MSL or **2.0** ft.
G. Filter pack, top _____ ft. MSL or **5.0** ft.
H. Screen joint, top _____ ft. MSL or **5.0** ft.
I. Well bottom _____ ft. MSL or **15.0** ft.
J. Filter pack, bottom _____ ft. MSL or **16.0** ft.
K. Borehole, bottom _____ ft. MSL or **16.0** ft.
L. Borehole, diameter **8.00** in.
M. O.D. well casing **2.10** in.
N. I.D. well casing **2.00** in.

1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: **12.00** in.
b. Length: **1.0** 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; Annular space seal ☐; Other ☐ _____
5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Sand, #30**
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Sand, #60**
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 **Timco**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ _____

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**

Facility License, Permit or Monitoring Number: _____

Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12

Distance Well Is From Waste/Source Boundary: _____ ft.

Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No

Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.

Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or

St. Plane _____ ft. N, _____ ft. E.

Section Location of Waste/Source: **NW** 1/4 of **NE** 1/4 of Sec. **10**, T. **6** N, R. **21** ☒ E. ☐ W.

Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known

Well Name: **MW-5**

Wis. Unique Well Number: _____ DNR Well Number: _____

Date Well Installed: 1 1 / 0 9 / 0 1 (m m d d y y)

Well Installed By: (Person's Name and Firm)
Sigma Environmental
Marty Nessman

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

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

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

13. Sieve analysis attached? ☐ 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): _____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.

F. Fine sand, top _____ ft. MSL or **2.0** ft.

G. Filter pack, top _____ ft. MSL or **5.0** ft.

H. Screen joint, top _____ ft. MSL or **5.0** ft.

I. Well bottom _____ ft. MSL or **15.0** ft.

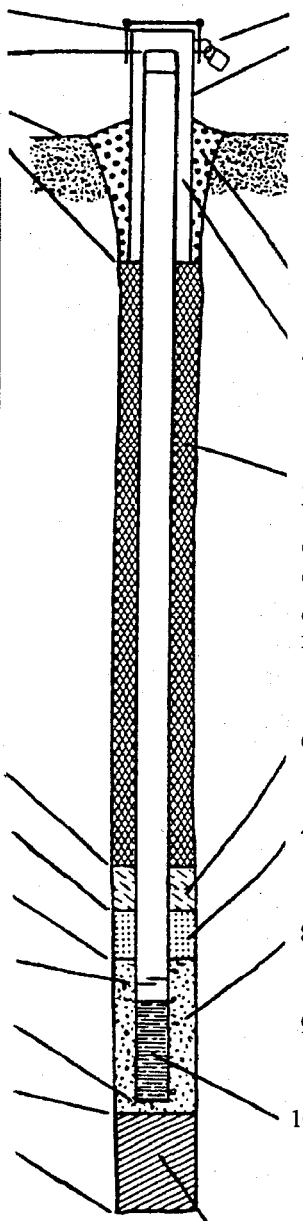
J. Filter pack, bottom _____ ft. MSL or **16.0** ft.

K. Borehole, bottom _____ ft. MSL or **16.0** ft.

L. Borehole, diameter **8.00** in.

M. O.D. well casing **2.10** in.

N. I.D. well casing **2.00** in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: **12.00** in.
b. Length: **1.0** 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; Annular space seal ☐; Other ☐ _____

5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Sand, #30**
b. Volume added _____ ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Sand, #60**
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 **Timco**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ _____

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats, and ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: **MW-6**
Facility License, Permit or Monitoring Number: _ _ _ _ _ _ _	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane ____ ft. N, ____ ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☐ 11; Piezometer ☐ 12	Section Location of Waste/Source: ☒ E. NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☐ W.	Date Well Installed: 1 1 / 0 9 / 0 1 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): **Sigma Environmental**; **Marty Nessman**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

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

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

13. Sieve analysis attached? ☐ Yes ☒ No

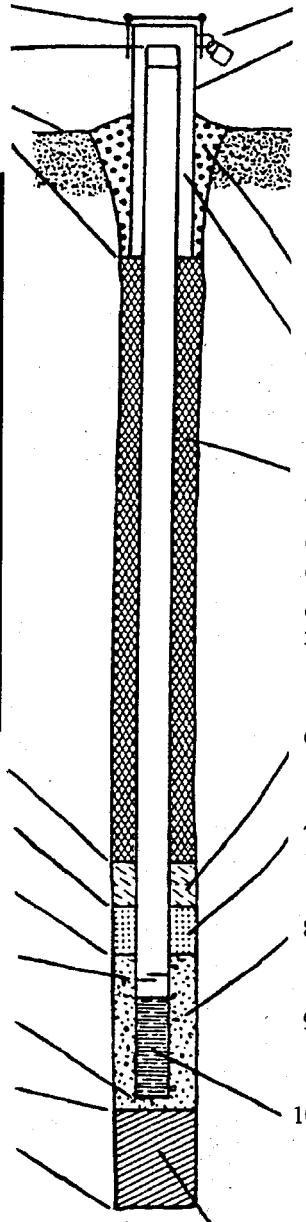
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

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):
_____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.
F. Fine sand, top _____ ft. MSL or **2.0** ft.
G. Filter pack, top _____ ft. MSL or **5.0** ft.
H. Screen joint, top _____ ft. MSL or **5.0** ft.
I. Well bottom _____ ft. MSL or **15.0** ft.
J. Filter pack, bottom _____ ft. MSL or **16.0** ft.
K. Borehole, bottom _____ ft. MSL or **16.0** ft.
L. Borehole, diameter **8.00** in.
M. O.D. well casing **2.10** in.
N. I.D. well casing **2.00** in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: **12.00** in.
b. Length: **1.0** 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; Annular space seal ☐ ____; Other ☐ ____
5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. **Red Sand, #30**
b. Volume added _____ ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. **Red Sand, #60**
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 **Timco**
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

ease complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats, d ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than $10, nor more than 000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than $10,000 for each y of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: **MW-7**
Facility License, Permit or Monitoring Number: _ _ _ _ _ _ _ _	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	St. Plane _____ ft. N, _____ ft. E.	Date Well Installed: 0 1 / 1 8 / 0 2 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ft.	Section Location of Waste/Source: ☒ E. NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☐ W.	Well Installed By: (Person's Name and Firm)
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Mid America

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

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

13. Sieve analysis attached? ☐ 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):

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.

F. Fine sand, top _____ ft. MSL or 3.0 ft.

G. Filter pack, top _____ ft. MSL or 4.0 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 15.0 ft.

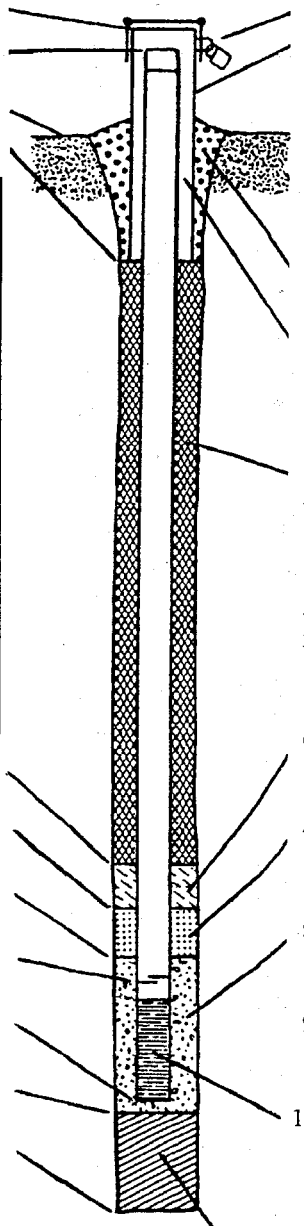
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.00 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 10.00 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: compression cap

3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ____; sand Other ☒ ____

5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. # 7- play sand
b. Volume added 1/2 bag ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. #5
b. Volume added 4 bags 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 _____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature: Mary Cliffe

Firm: **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: **MW-8**
Facility License, Permit or Monitoring Number: _____	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane ____ ft. N, ____ ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☒ E. ☐ W.	Date Well Installed: 0 1/1 7/0 2 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): **Mid America**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or **1.0** ft.

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

13. Sieve analysis attached? ☐ Yes ☒ No

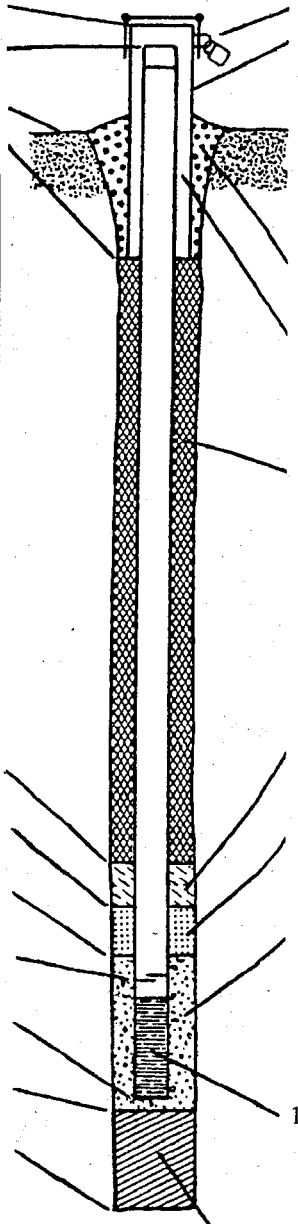
14. Drilling method used: Rotary ☐ 50; Hollow Stem Auger ☒ 41; Other ☐ ____

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):
_____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.
F. Fine sand, top _____ ft. MSL or **3.0** ft.
G. Filter pack, top _____ ft. MSL or **4.0** ft.
H. Screen joint, top _____ ft. MSL or **5.0** ft.
I. Well bottom _____ ft. MSL or **15.0** ft.
J. Filter pack, bottom _____ ft. MSL or **15.0** ft.
K. Borehole, bottom _____ ft. MSL or **15.0** ft.
L. Borehole, diameter **8.00** in.
M. O.D. well casing **2.10** in.
N. I.D. well casing **2.00** in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: **10.00** in.
b. Length: **1.0** ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: **compression cap**
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ____
4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ____; **sand** Other ☒ ____
5. Annular space seal: a. Granular 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 pellets ☐ 32
c. ____ Other ☐ ____
7. Fine sand material: Manufacturer, product name & mesh size
a. **# 7- play sand**
b. Volume added **1/2 bag** ft³
8. Filter pack material: Manufacturer, product name & mesh size
a. **#5**
b. Volume added **4 bags** 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 ____
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: **MW-9**
Facility License, Permit or Monitoring Number: _ _ _ _ _ _ _	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or St. Plane ____ ft. N, ____ ft. E.	Wis. Unique Well Number / DNR Well Number
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☒ E. ☐ W.	Date Well Installed: 0 1 / 1 8 / 0 2 (m m / d d / y y)
Distance Well Is From Waste/Source Boundary: ft.	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	Well Installed By: (Person's Name and Firm): **Mid America**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No		

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1.0 ft.

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

13. Sieve analysis attached? ☐ 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):

E. Bentonite seal, top _____ ft. MSL or 1.0 ft.

F. Fine sand, top _____ ft. MSL or 3.0 ft.

G. Filter pack, top _____ ft. MSL or 4.0 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 15.0 ft.

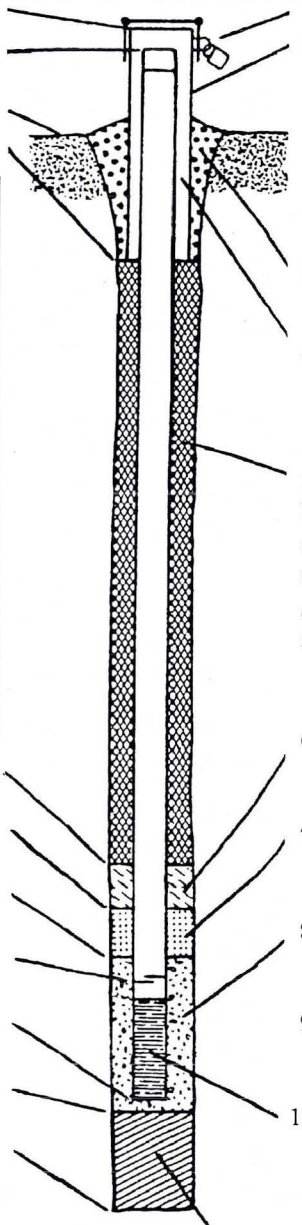
J. Filter pack, bottom _____ ft. MSL or 15.0 ft.

K. Borehole, bottom _____ ft. MSL or 15.0 ft.

L. Borehole, diameter 8.00 in.

M. O.D. well casing 2.10 in.

N. I.D. well casing 2.00 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 10.00 in.
b. Length: 1.0 ft.
c. Material: Steel ☒ 04; Other ☐ ___
d. Additional protection? ☐ Yes ☒ No
If yes, describe: **compression cap**

3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ___

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ___; **sand** Other ☒ ___

5. Annular space seal: a. Granular 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 pellets ☐ 32
c. _____ Other ☐ ___

7. Fine sand material: Manufacturer, product name & mesh size
a. **# 7- play sand**
b. Volume added **1/2 bag** ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **#5**
b. Volume added **4 bags** 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 _____
c. Slot size: 0.010 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ ___

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

Signature: _____ Firm: **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

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State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name: **Getz Property**	Local Grid Location of Well: ____ ft. ☐ N. ☐ S. ____ ft. ☐ E. ☐ W.	Well Name: **MW-10**
Facility License, Permit or Monitoring Number: _ _ _ _ _ _ _	Grid Origin Location: Lat. ___ ___ ___ Long. ___ ___ ___ or	Wis. Unique Well Number: DNR Well Number:
Type of Well: Water Table Observation Well ☒ 11; Piezometer ☐ 12	St. Plane ____ ft. N, ____ ft. E.	Date Well Installed: 0 7 / 1 9 / 0 2 (m m d d y y)
Distance Well Is From Waste/Source Boundary: ____ ft.	Section Location of Waste/Source: NW 1/4 of NE 1/4 of Sec. 10, T. 6 N, R. 21 ☒ E. ☐ W.	Well Installed By: (Person's Name and Firm): **Jim and Terry**; **Badger State**
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient; d ☐ Downgradient n ☐ Not Known	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or **1.0** ft.

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

13. Sieve analysis attached? ☐ 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): ____

E. Bentonite seal, top _____ ft. MSL or **1.0** ft.

F. Fine sand, top _____ ft. MSL or **4.0** ft.

G. Filter pack, top _____ ft. MSL or **5.0** ft.

H. Screen joint, top _____ ft. MSL or **6.0** ft.

I. Well bottom _____ ft. MSL or **16.0** ft.

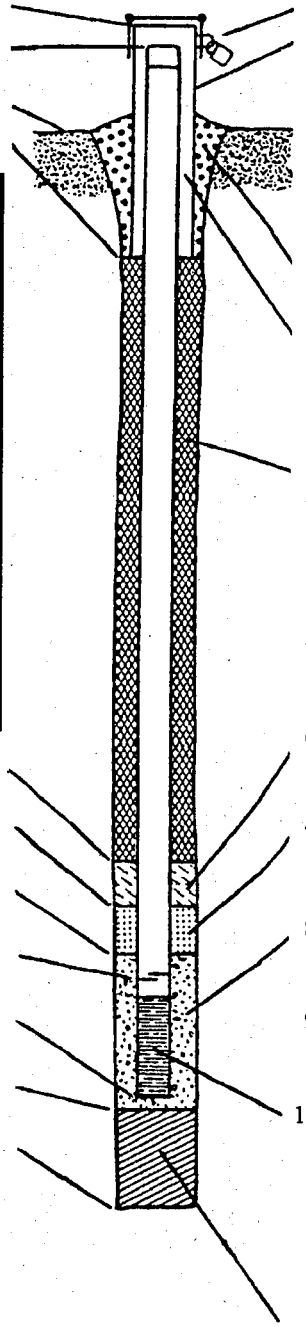
J. Filter pack, bottom _____ ft. MSL or **16.0** ft.

K. Borehole, bottom _____ ft. MSL or **16.0** ft.

L. Borehole, diameter **8.00** in.

M. O.D. well casing **2.10** in.

N. I.D. well casing **2.00** in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: **10.00** in.
b. Length: **1.0** ft.
c. Material: Steel ☒ 04; Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: **compression cap**

3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☐ 30; Annular space seal ☐ ____; **sand** Other ☒ ____

5. Annular space seal: a. Granular 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 pellets ☐ 32
c. ____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. **# 7- play sand**
b. Volume added **1/2 bag** ft³

8. Filter pack material: Manufacturer, product name & mesh size
a. **#5**
b. Volume added **4 bags** 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 ____
c. Slot size: **0.010** in.
d. Slotted length: **10.0** ft.

11. Backfill material (below filter pack): None ☒ 14; Other ☐ ____

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

Signature _____ Firm **Sigma Environmental Services, Inc.**
220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats, and ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

6515

State of Wisconsin
Department of Natural Resources

Route to: Solid Waste ☐ Haz. Waste ☐ Wastewater ☐
Env. Response & Repair ☐ Underground Tanks ☒ Other ☐

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 4-90

Facility/Project Name **Getz Property**	Local Grid Location of Well ______ ft. ☐ N. ☐ S. ______ ft. ☐ E. ☐ W.	Well Name **PZ-1**
Facility License, Permit or Monitoring Number _ _ _ _ _ _ _ _	Grid Origin Location Lat. ___ ___ ___ Long. ___ ___ ___ or	Wis. Unique Well Number DNR Well Number
Type of Well: Water Table Observation Well ☐ 11 Piezometer ☒ 12	St. Plane ________ ft. N, ________ ft. E.	Date Well Installed 0 1 / 1 8 / 0 2 (m m d d y y)
Distance Well Is From Waste/Source Boundary ft.	Section Location of Waste/Source **NW** 1/4 of **NE** 1/4 of Sec. **10**, T. **6** N, R. **21** ☒ E. ☐ W.	Well Installed By: (Person's Name and Firm)
Is Well A Point of Enforcement Std. Application? ☐ Yes ☐ No	Location of Well Relative to Waste/Source u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	**Mid America**

A. Protective pipe, top elevation _ _ _ _ _ _ ft. MSL

B. Well casing, top elevation _ _ _ _ _ _ ft. MSL

C. Land surface elevation _ _ _ _ _ ft. MSL
steel casing, top 0.0 ft

D. Surface seal, bottom _ _ _ _ _ ft. MSL or _ _ 1.0 ft.

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

13. Sieve analysis attached? ☐ 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):

~~steel casing, top~~ sand, top 2.5 ft

E. Bentonite seal, top _ _ _ _ _ ft. MSL or _ _ 5.0 ft.
steel casing, bottom 20.0 ft

F. Fine sand, top _ _ _ _ _ ft. MSL or _ _ 26.5 ft.

G. Filter pack, top _ _ _ _ _ ft. MSL or _ _ 28.0 ft.

H. Screen joint, top _ _ _ _ _ ft. MSL or _ _ 30.0 ft.

I. Well bottom _ _ _ _ _ ft. MSL or _ _ 35.0 ft.

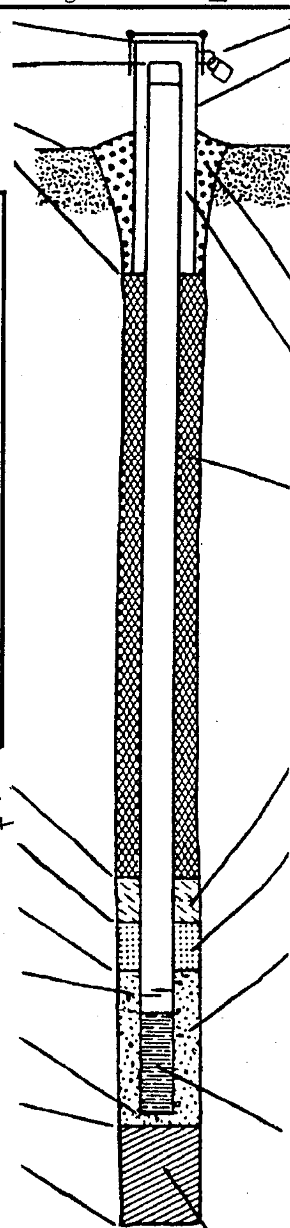
J. Filter pack, bottom _ _ _ _ _ ft. MSL or _ _ 35.0 ft.

K. Borehole, bottom _ _ _ _ _ ft. MSL or _ _ 35.0 ft.

L. Borehole, diameter _ 8.00 in.

M. O.D. well casing _ 2.10 in.

N. I.D. well casing _ 2.00 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
   a. Inside diameter: _ 10.00 in.
   b. Length: _ 1.0 ft.
   c. Material: Steel ☒ 04; Other ☐
   d. Additional protection? ☒ Yes ☐ No
   If yes, describe: **20 foot steel casing**
3. Surface seal: Bentonite ☐ 30; Concrete ☒ 01; Other ☐
4. Material between well casing and protective pipe:
   Bentonite ☐ 30; Annular space seal ☐; **sand** Other ☒
5. Annular space seal: a. Granular 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 pellets ☒ 32
   c. **bentonite plug** Other ☒
7. Fine sand material: Manufacturer, product name & mesh size
   a. **# 7- play sand**
   b. Volume added **1 bag** ft³
8. Filter pack material: Manufacturer, product name & mesh size
   a. **#5**
   b. Volume added **31/2 bags** 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 ______________
    c. Slot size: 0.010 in.
    d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14; Other ☐

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

Signature	Firm
[signature]	**Sigma Environmental Services, Inc.** 220 E. Ryan Road, Oak Creek, WI 53154 (414) 768-7144

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs 144,147 & 160, Wis Stats, and ch NR 141, Wis Ad Code. In accordance with ch 144, Wis Stats, failure to file this form may result in a forfeiture of not less than $10, nor more than $5000 for each day of violation. In accordance with ch 147, Wis Stats, failure to file this form may result in a forfeiture of not more than $10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

6515

APPENDIX D

MONITORING WELL DEVELOPMENT FORMS
(WDNR FORM 4400-113B)

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
6515 Norman Goetz Prop.	Milwaukee	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	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 45 min.

4. Depth of well (from top of well casisng) 14.8 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 11.6 gal.

7. Volume of water removed from well 7.0 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. 7.22 ft.	Dry ft.
Date	b. 10/26/2001 (mm dd yyyy)	11/26/2001 (mm dd yyyy)
Time	c. 9:00 ☒ a.m. ☐ p.m.	9:45 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (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: Tom Last Name: Multhauf
Firm: SiGMA Env.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tom Last Name: Multhauf
Facility/Firm: SiGMA Environmental
Street: 220 E Ryan Rd.
City/State/Zip: Oak Creek WI 53154

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Tom Multhauf
Print Name: Tom Multhauf
Firm: SiGMA Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
6515 Norman Goetz Prop.	Milwaukee	MW-2
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**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 45 min.

4. Depth of well (from top of well casisng) 14.7 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 10.8 gal.

7. Volume of water removed from well 7.5 gal.

8. Volume of water added (if any) ____.__ gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 7.51 ft.	Dry ft.
Date	b. 11/26/2001 (m m d d y y y y)	11/26/2001 (m m d d y y y y)
Time	c. 10:00 ☒ a.m. ☐ p.m.	10:45 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (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: Tom Last Name: Multhauf
Firm: SiGMA Env.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tom Last Name: Multhauf
Facility/Firm: SiGMA Environmental
Street: 220 E Ryan Rd.
City/State/Zip: Oak Creek WI 53154

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas Multhauf
Print Name: Tom Multhauf
Firm: SiGMA Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
#6515 Norman Goetz Prop.	Milwaukee	MW-3
Facility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number**	**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 __30 min.

4. Depth of well (from top of well casisng) __14.7 ft.

5. Inside diameter of well __2.00 in.

6. Volume of water in filter pack and well casing __12.6 gal.

7. Volume of water removed from well __6.0 gal.

8. Volume of water added (if any) ____.__ gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. __6.46 ft.	Dry. ft.
Date	b. 11/26/2001 (m m d d y y y y)	__/__/____ (m m d d y y y y)
Time	c. 11:50 ☒ a.m. ☐ p.m.	12:20 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	__0.0 inches	__0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☒ 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:

16. Well developed by: Name (first, last) and Firm
First Name: Tom Last Name: Multhauf
Firm: SIGMA ENV.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tom Last Name: Multhauf
Facility/Firm: SIGMA Environmental
Street: 220 E Ryan Rd.
City/State/Zip: Oak Creek WI 53154

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas Multhauf
Print Name: Tom Multhauf
Firm: SIGMA Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
6515 Norman Goetz Prop.	Milwaukee	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	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 30 min.

4. Depth of well (from top of well casisng) 14.4 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 11.8 gal.

7. Volume of water removed from well 5.5 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. 6.61 ft.	DCY ft.
Date	b. 11/26/2001 (m m d d y y y y)	11/26/2001 (m m d d y y y y)
Time	c. 12:20 ☐ a.m. ☒ p.m.	12:50 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☒ 25 (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: Tom Last Name: Multhauf
Firm: SiGMA Env.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tom Last Name: Multhauf
Facility/Firm: SiGMA Environmental
Street: 220 E Ryan Rd.
City/State/Zip: Oak Creek WI 53154

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas Multhauf
Print Name: Tom Multhauf
Firm: SiGMA Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
#6515 Norman Goetz Prop.	Milwaukee	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	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 35 min.

4. Depth of well (from top of well casisng) 14.9 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 13.9 gal.

7. Volume of water removed from well 7.5 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. 5.66 ft.	Dry ft.
Date	b. 11/26/2001 (m m d d y y y y)	11/26/2001 (m m d d y y y y)
Time	c. 12:50 ☐ a.m. ☐ p.m.	1:25 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☐ 20 Turbid ☒ 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:

16. Well developed by: Name (first, last) and Firm
First Name: Tom Last Name: Multhauf
Firm: SiGMA Env.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tom Last Name: Multhauf
Facility/Firm: SiGMA Environmental
Street: 220 E Ryan Rd.
City/State/Zip: Oak Creek WI 53154

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas Multhauf
Print Name: Tom Multhauf
Firm: SiGMA Environmental

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
#6515 Norman Getz Prop.	Milwaukee	MW-6

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	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 __30 min.

4. Depth of well (from top of well casisng) __14.7 ft.

5. Inside diameter of well __2.00 in.

5. Volume of water in filter pack and well casing __9.8 gal.

7. Volume of water removed from well __6.5 gal.

3. Volume of water added (if any) ____.__ gal.

). 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. __8.13 ft.	__Dry__ ft.
Date	b. 11/26/2001 (m m d d y y y y)	11/26/2001
Time	c. 1:30 ☐ a.m. ☒ p.m.	2:00 ☐ a.m. ☒ p.m.
12. Sediment in well bottom	__0.0 inches	__0.0 inches
13. Water clarity	Clear ☒ 10 Turbid ☐ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (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: Tom Last Name: Multhauf
Firm: SIGMA ENV.

17. Additional comments on development:

Name and Address of Facility Contact/Owner/Responsible Party
First Name: Tom Last Name: Multhauf
Facility/Firm: SIGMA Environmental
Street: 220 E Ryan Rd.
City/State/Zip: Oak Creek WI 53154

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: Thomas Multhauf
Print Name: Tom Multhauf
Firm: SIGMA Environmental

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

ate of Wisconsin
epartment of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

acility/Project Name	County Name	Well Name
Norman Getz Property	Milwaukee	MW-7
acility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **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 _____ min.

4. Depth of well (from top of well casisng) 14.75 ft.

5. Inside diameter of well 2.00 in.

6. Volume of water in filter pack and well casing 7.41 gal.

7. Volume of water removed from well 9.5 gal.

8. Volume of water added (if any) None gal.

9. Source of water added None

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. 9.84 ft.	Dry ft.
Date	b. 01/23/2002 (m m d d y y y y)	01/23/2002 (m m d d y y y y)
Time	c. 10:45 ☒ a.m. ☐ p.m.	11:15 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (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: David Last Name: Dailey
Firm: Sigma Env.

17. Additional comments on development: Bailed well dry 3 times
1st = 4.0 gals.
2nd = 3.0 gals. } 10 min. intervals
3rd = 2.5 gals.

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: David Dailey
Print Name: David Dailey
Firm: Sigma Env.

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
Norman Getz Property	Milwaukee	MW-8

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	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 __30__ min.

4. Depth of well (from top of well casisng) __14.40__ ft.

5. Inside diameter of well __2.0__ in.

5. Volume of water in filter pack and well casing __2.06__ gal.

7. Volume of water removed from well __0.5__ gal.

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

9. Source of water added None

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.	13.02 ft.	Dry ft.
Date b. (mm dd yyyy)	01/23/2002	01/23/2002
Time c.	10:00 ☒ a.m. ☐ p.m.	10:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15	Clear ☐ 20 Turbid ☒ 25
(Describe)	slight turbid	slight turbid

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: David Last Name: Dailey
Firm: Sigma Env.

17. Additional comments on development: Bailed well dry 3 times
1st = 1½ liter
2nd = ¾ liter
3rd = ½ liter
} 10 min. intervals

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: David Dailey
Print Name: David Dailey
Firm: Sigma Env.

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

ate of Wisconsin
partment of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

cility/Project Name	County Name	Well Name
Norman Getz Property	Milwaukee	MW-9
cility License, Permit or Monitoring Number	**County Code**	**Wis. Unique Well Number** / **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 30 min.

4. Depth of well (from top of well casisng) 14.1 ft.

Inside diameter of well 2.0 in.

5. Volume of water in filter pack and well casing 10.77 gal.

7. Volume of water removed from well 11.0 gal.

Volume of water added (if any) None. gal.

9. Source of water added None

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. 7.59 ft.	____.__ ft.
Date	b. 01/23/2002 (m m d d y y y y)	01/23/2002 (m m d d y y y y)
Time	c. 10:45 ☒ a.m. ☐ p.m.	11:15 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 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:

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Dailey
Firm: Sigma Env.

17. Additional comments on development: Bailed well dry 3 times
1st. = 5.0 gals.
2nd = 3.0 gals. } 10 min. intervals
3rd = 3.0 gals.

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: David Dailey
Print Name: David Dailey
Firm: Sigma Env.

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

ate of Wisconsin
partment of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

acility/Project Name	County Name	Well Name
Norman Getz Property	Milwaukee	PZ-1

acility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	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 __30__ min.

4. Depth of well (from top of well casisng) __34.6__ ft.

Inside diameter of well __2.0__ in.

5. Volume of water in filter pack and well casing __2.06__ gal.

7. Volume of water removed from well __0.5__ gal.

Volume of water added (if any) None gal.

9. Source of water added None

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. 33.20 ft.	____.__ ft.
Date	b. 01/23/2002 (m m d d y y y y)	01/23/2002 (m m d d y y y y)
Time	c. 10:00 ☒ a.m. ☐ p.m.	10:30 ☒ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe) slight turbid	Clear ☐ 20 Turbid ☒ 25 (Describe) slight turbid
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:

16. Well developed by: Name (first, last) and Firm
First Name: David Last Name: Dailey
Firm: Sigma Env.

17. Additional comments on development: Bailed well dry 3 times
1st = 1 liter
2nd = ½ liter } 10 min. intervals
3rd = ¼ liter

Name and Address of Facility Contact/Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: David Dailey
Print Name: David Dailey
Firm: Sigma Env.

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

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

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

Facility/Project Name	County Name	Well Name
NORMAN GETZ PROPERTY	MILWAUKEE	MW-10

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	__	PJ 106	___

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 casisng) __16.15 ft.

5. Inside diameter of well __2.00 in.

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

7. Volume of water removed from well __5.0 gal.

8. Volume of water added (if any) __0.0 gal.

9. Source of water added _____

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 11.44 ft.	15.24 ft.
Date	b. 07/23/2002 (m m d d y y y y)	07/23/2002
Time	c. 08:20 ■ a.m. ☐ p.m.	09:00 ■ a.m. ☐ p.m.
12. Sediment in well bottom	0.0 inches	0.0 inches
13. Water clarity	Clear ☐ 10 Turbid ■ 15 (Describe) 0-5 gallons - turbid-silty	Clear ☐ 20 Turbid ■ 25 (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: TOM Last Name: McCoy
Firm: SIGMA Environmental

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: _____
Street: _____
City/State/Zip: _____

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: TOM McCoy
Firm: SIGMA ENVIRONMENTAL

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

APPENDIX E

SOIL LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 715-359-7226
FACSIMILE 715-355-3221

May 18, 2001

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

Attn: Jim Westerman

REPORT NO.: 070010 **PROJECT NO.: 6515**

Please find enclosed the analytical report, including the Sample Summary, Sample Narrative and Chain of Custody for your sample set received May 3, 2001.

All analyses were performed in accordance with approved methods as indicated on this report.

If you have any questions about the results, please call. Thank you for using USFilter, Enviroscan Services for your analytical needs.

Sincerely,

USFilter, Enviroscan Services

Gary L. Scharrer
Organic Laboratory Supervisor

I certify that the data contained in this report has been generated and reviewed in accordance with the USFilter, Enviroscan Services Quality Assurance Program. Exceptions, if any, are discussed in the sample narrative. Release of this Final Report is authorized as verified by the following signature.

Approved by: James R. Saltows 5/7

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sample Summary

070010.2

Lab Id	Client Sample ID	Date/Time	Matrix
070010	GP-1 2-4'	05/01/01 11:00	SOIL
070011	GP-1 4-6'	05/01/01 11:20	SOIL
070012	GP-2 7-9'	05/01/01 11:40	SOIL
070013	GP-3 3-5'	05/01/01 12:00	SOIL
070014	GP-4 3-5'	05/01/01 13:15	SOIL
070015	HA-1 1-3'	05/01/01 14:20	SOIL
070016	HA-1 7-9'	05/01/01 14:30	SOIL
070017	HA-2 3-5'	05/01/01 15:00	SOIL
070018	HA-3 5-7'	05/01/01 15:30	SOIL
070019	HA-3 7-9'	05/01/01 16:00	SOIL
070020	HA-4 3-5'	05/01/01 16:40	SOIL

Sample Narrative/Sample Status

LOGIN:

GENERAL:

ANALYSES:

QA/QC:

REPORTING:

Definitions

LOD = Limit of Detection
LOQ = Limit of Quantitation
< = Less Than
COMP = Complete
SUBCON = Subcontracted analysis
mv = millivolts

µg/l = Micrograms per liter = parts per billion (ppb)
µg/kg = Micrograms per kilogram = parts per billion (ppb)
mg/l = Milligrams per liter = parts per million (ppm)
mg/kg = Milligrams per kilogram = parts per million (ppm)
NOT PRES = Not Present
ppth = Parts per thousand

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.3
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **GP-1 2-4'** Matrix: **SOIL** Sample Date/Time: **05/01/01 11:00** Lab No. **070010**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/13/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/13/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/13/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/13/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/13/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL	05/13/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/13/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/13/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/13/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/13/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/13/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/13/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/13/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	LCL DUP	05/13/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/13/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/13/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/13/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/13/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/13/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL DUP	05/13/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/13/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/13/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/13/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/13/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/13/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/13/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/13/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
Tetrachloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/13/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/13/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/13/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/13/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/13/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1	LCL	05/13/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/13/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/13/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/13/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/13/01	LMP
MOSA21-2								
Total Solids	82.5	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.4
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **GP-1 4-6'** Matrix: **SOIL** Sample Date/Time: **05/01/01 11:20** Lab No. **070011**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
Bromobenzene	<0.1	mg/kg	0.008	0.0266	5		05/15/01	LMP
Bromodichloromethane	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP
n-Butylbenzene	1.11	mg/kg	0.005	0.0167	5		05/15/01	LMP
sec-Butylbenzene	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
tert-Butylbenzene	<0.1	mg/kg	0.003	0.00999	5		05/15/01	LMP
Carbon Tetrachloride	<0.1	mg/kg	0.006	0.02	5		05/15/01	LMP
Chlorobenzene	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
Chlorodibromomethane	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
Chloroethane	<0.1	mg/kg	0.012	0.04	5	CSL LCL	05/15/01	LMP
Chloroform	<0.1	mg/kg	0.016	0.0533	5		05/15/01	LMP
Chloromethane	<0.1	mg/kg	0.011	0.0366	5	CSL LCL DUP	05/15/01	LMP
2-Chlorotoluene	<0.1	mg/kg	0.012	0.04	5		05/15/01	LMP
4-Chlorotoluene	<0.1	mg/kg	0.014	0.0466	5		05/15/01	LMP
1,2-Dibromo-3-chloropropane	<0.1	mg/kg	0.019	0.0633	5		05/15/01	LMP
1,2-Dibromoethane	<0.1	mg/kg	0.006	0.02	5		05/15/01	LMP
1,2-Dichlorobenzene	<0.1	mg/kg	0.007	0.0233	5		05/15/01	LMP
1,3-Dichlorobenzene	<0.1	mg/kg	0.011	0.0366	5		05/15/01	LMP
1,4-Dichlorobenzene	<0.1	mg/kg	0.013	0.0433	5		05/15/01	LMP
Dichlorodifluoromethane	<0.1	mg/kg	0.017	0.0566	5	CSL LCL DUP	05/15/01	LMP
1,1-Dichloroethane	<0.1	mg/kg	0.006	0.02	5		05/15/01	LMP
1,2-Dichloroethane	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
1,1-Dichloroethylene	<0.1	mg/kg	0.007	0.0233	5		05/15/01	LMP
cis-1,2-Dichloroethylene	<0.1	mg/kg	0.007	0.0233	5		05/15/01	LMP
trans-1,2-Dichloroethylene	<0.1	mg/kg	0.009	0.03	5		05/15/01	LMP
1,2-Dichloropropane	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP
1,3-Dichloropropane	<0.1	mg/kg	0.017	0.0566	5		05/15/01	LMP
2,2-Dichloropropane	<0.1	mg/kg	0.012	0.04	5	CSL LCL DUP	05/15/01	LMP
Ethylbenzene	<0.1	mg/kg	0.007	0.0233	5		05/15/01	LMP
Hexachlorobutadiene	<0.1	mg/kg	0.008	0.0266	5		05/15/01	LMP
Isopropylbenzene	<0.1	mg/kg	0.006	0.02	5		05/15/01	LMP
Isopropyl Ether	<0.1	mg/kg	0.017	0.0566	5	CSL LCL	05/15/01	LMP
p-Isopropyltoluene	<0.1	mg/kg	0.006	0.02	5		05/15/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.1	mg/kg	0.018	0.0599	5	CSL	05/15/01	LMP
Methylene Chloride	<0.1	mg/kg	0.005	0.0167	5	CSL	05/15/01	LMP
Naphthalene	1.50	mg/kg	0.018	0.0599	5		05/15/01	LMP
n-Propylbenzene	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
Tetrachloroethylene	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP
1,1,2,2-Tetrachloroethane	<0.1	mg/kg	0.008	0.0266	5		05/15/01	LMP
Toluene	<0.1	mg/kg	0.008	0.0266	5		05/15/01	LMP
1,2,3-Trichlorobenzene	<0.1	mg/kg	0.015	0.05	5		05/15/01	LMP
1,2,4-Trichlorobenzene	<0.1	mg/kg	0.013	0.0433	5		05/15/01	LMP
1,1,1-Trichloroethane	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP
1,1,2-Trichloroethane	<0.1	mg/kg	0.004	0.0133	5		05/15/01	LMP
Trichloroethylene	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP
Trichlorofluoromethane	<0.1	mg/kg	0.007	0.0233	5		05/15/01	LMP
1,2,4-Trimethylbenzene	<0.1	mg/kg	0.007	0.0233	5		05/15/01	LMP
1,3,5-Trimethylbenzene	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP
Vinyl Chloride	<0.1	mg/kg	0.009	0.03	5	CSL LCL	05/15/01	LMP
m- & p-Xylene	<0.1	mg/kg	0.008	0.0266	5		05/15/01	LMP
o-Xylene	<0.1	mg/kg	0.005	0.0167	5		05/15/01	LMP

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.5
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **GP-1 4-6'** Matrix: **SOIL** Sample Date/Time: **05/01/01 11:20** Lab No. **070011**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	0.129	mg/kg	0.0062	0.0206	1		05/16/01	GLS
Acenaphthylene	<0.00515	mg/kg	0.0042	0.014	1		05/16/01	GLS
Anthracene	<0.00355	mg/kg	0.0029	0.00966	1		05/16/01	GLS
Benzo(a)Anthracene	<0.00306	mg/kg	0.0025	0.00833	1		05/16/01	GLS
Benzo(a)Pyrene	<0.00282	mg/kg	0.0023	0.00766	1		05/16/01	GLS
Benzo(b)Fluoranthene	0.0107	mg/kg	0.0011	0.00366	1		05/16/01	GLS
Benzo(k)Fluoranthene	0.0181	mg/kg	0.0012	0.004	1		05/16/01	GLS
Benzo(ghi)Perylene	<0.00123	mg/kg	0.001	0.00333	1		05/16/01	GLS
Chrysene	<0.00245	mg/kg	0.002	0.00666	1		05/16/01	GLS
Dibenzo(a,h)Anthracene	<0.00172	mg/kg	0.0014	0.00466	1	J	05/16/01	GLS
Fluoranthene	0.0104	mg/kg	0.0026	0.00866	1		05/16/01	GLS
Fluorene	0.499	mg/kg	0.0035	0.0117	10		05/18/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.00208	mg/kg	0.0017	0.00566	1		05/16/01	GLS
1-Methyl Naphthalene	1.45	mg/kg	0.0029	0.00966	10		05/18/01	GLS
2-Methyl Naphthalene	0.0533	mg/kg	0.0023	0.00766	1		05/16/01	GLS
Naphthalene	0.0353	mg/kg	0.0039	0.013	1		05/16/01	GLS
Phenanthrene	2.21	mg/kg	0.0016	0.00533	10		05/18/01	GLS
Pyrene	<0.0038	mg/kg	0.0031	0.0103	1		05/16/01	GLS
Solid Organic Extraction	COMP		3.0	9.99	-		05/11/01	CKV
MOSA21-2								
Total Solids	81.6	%	0.33	1.1	-		05/07/01	LMV
WI DNR								
Soil Diesel Range Organics	1,250.	mg/kg	2.15	7.16	20	D1	05/17/01	LTD
Soil Org Ext - DRO	COMP		-	-	-		05/16/01	CKV

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.6
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **GP-2 7-9'** Matrix: **SOIL** Sample Date/Time: **05/01/01 11:40** Lab No. **070012**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.00839	mg/kg	0.0062	0.0206	1		05/16/01	GLS
Acenaphthylene	<0.00568	mg/kg	0.0042	0.014	1		05/16/01	GLS
Anthracene	<0.00392	mg/kg	0.0029	0.00966	1		05/16/01	GLS
Benzo(a)Anthracene	<0.00338	mg/kg	0.0025	0.00833	1		05/16/01	GLS
Benzo(a)Pyrene	<0.00311	mg/kg	0.0023	0.00766	1		05/16/01	GLS
Benzo(b)Fluoranthene	<0.00149	mg/kg	0.0011	0.00366	1		05/16/01	GLS
Benzo(k)Fluoranthene	<0.00162	mg/kg	0.0012	0.004	1		05/16/01	GLS
Benzo(ghi)Perylene	<0.00135	mg/kg	0.001	0.00333	1		05/16/01	GLS
Chrysene	<0.00271	mg/kg	0.002	0.00666	1		05/16/01	GLS
Dibenzo(a,h)Anthracene	<0.00189	mg/kg	0.0014	0.00466	1		05/16/01	GLS
Fluoranthene	<0.00352	mg/kg	0.0026	0.00866	1		05/16/01	GLS
Fluorene	<0.00474	mg/kg	0.0035	0.0117	1		05/16/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.0023	mg/kg	0.0017	0.00566	1		05/16/01	GLS
1-Methyl Naphthalene	0.0633	mg/kg	0.0029	0.00966	1		05/16/01	GLS
2-Methyl Naphthalene	0.0896	mg/kg	0.0023	0.00766	1		05/16/01	GLS
Naphthalene	0.0252	mg/kg	0.0039	0.013	1		05/16/01	GLS
Phenanthrene	<0.00217	mg/kg	0.0016	0.00533	1		05/16/01	GLS
Pyrene	<0.00419	mg/kg	0.0031	0.0103	1		05/16/01	GLS
Solid Organic Extraction	COMP		3.0	9.99	-		05/11/01	CKV
MOSA21-2								
Total Solids	73.9	%	0.33	1.1	-		05/07/01	LMV
WI DNR								
Soil Diesel Range Organics	563.	mg/kg	2.15	7.16	10	D1	05/17/01	LTD
Soil Org Ext - DRO	COMP		-	-	-		05/16/01	CKV

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.7
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **GP-3 3-5'** Matrix: **SOIL** Sample Date/Time: **05/01/01 12:00** Lab No. **070013**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	1.02	mg/kg	0.0062	0.0206	100		05/18/01	GLS
Acenaphthylene	<0.00523	mg/kg	0.0042	0.014	1		05/17/01	GLS
Anthracene	<0.00361	mg/kg	0.0029	0.00966	1		05/17/01	GLS
Benzo(a)Anthracene	<0.00311	mg/kg	0.0025	0.00833	1		05/17/01	GLS
Benzo(a)Pyrene	<0.00286	mg/kg	0.0023	0.00766	1		05/17/01	GLS
Benzo(b)Fluoranthene	<0.00137	mg/kg	0.0011	0.00366	1		05/17/01	GLS
Benzo(k)Fluoranthene	<0.00149	mg/kg	0.0012	0.004	1		05/17/01	GLS
Benzo(ghi)Perylene	<0.00125	mg/kg	0.001	0.00333	1		05/17/01	GLS
Chrysene	<0.00249	mg/kg	0.002	0.00666	1		05/17/01	GLS
Dibenzo(a,h)Anthracene	<0.00174	mg/kg	0.0014	0.00466	1		05/17/01	GLS
Fluoranthene	<0.00324	mg/kg	0.0026	0.00866	1		05/17/01	GLS
Fluorene	2.76	mg/kg	0.0035	0.0117	100		05/18/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.00212	mg/kg	0.0017	0.00566	1		05/17/01	GLS
1-Methyl Naphthalene	14.1	mg/kg	0.0029	0.00966	100		05/18/01	GLS
2-Methyl Naphthalene	10.3	mg/kg	0.0023	0.00766	100		05/18/01	GLS
Naphthalene	<0.00486	mg/kg	0.0039	0.013	1		05/17/01	GLS
Phenanthrene	6.79	mg/kg	0.0016	0.00533	100		05/18/01	GLS
Pyrene	<0.00386	mg/kg	0.0031	0.0103	1		05/17/01	GLS
Solid Organic Extraction	COMP		3.0	9.99	-		05/11/01	CKV
MOSA21-2								
Total Solids	80.3	%	0.33	1.1	-		05/07/01	LMV
WI DNR								
Soil Diesel Range Organics	4,950.	mg/kg	2.15	7.16	100	D1	05/17/01	LTD
Soil Org Ext - DRO	COMP		-	-	-		05/16/01	CKV

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.8
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: GP-4 3-5' Matrix: SOIL Sample Date/Time: 05/01/01 13:15 Lab No. 070014

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8310								
Acenaphthene	<0.00834	mg/kg	0.0062	0.0206	1		05/17/01	GLS
Acenaphthylene	<0.00565	mg/kg	0.0042	0.014	1		05/17/01	GLS
Anthracene	<0.0039	mg/kg	0.0029	0.00966	1		05/17/01	GLS
Benzo(a)Anthracene	<0.00336	mg/kg	0.0025	0.00833	1		05/17/01	GLS
Benzo(a)Pyrene	0.0136	mg/kg	0.0023	0.00766	1		05/17/01	GLS
Benzo(b)Fluoranthene	0.00561	mg/kg	0.0011	0.00366	1		05/17/01	GLS
Benzo(k)Fluoranthene	<0.00162	mg/kg	0.0012	0.004	1		05/17/01	GLS
Benzo(ghi)Perylene	<0.00135	mg/kg	0.001	0.00333	1		05/17/01	GLS
Chrysene	<0.00269	mg/kg	0.002	0.00666	1		05/17/01	GLS
Dibenzo(a,h)Anthracene	<0.00188	mg/kg	0.0014	0.00466	1		05/17/01	GLS
Fluoranthene	0.0111	mg/kg	0.0026	0.00866	1	J	05/17/01	GLS
Fluorene	<0.00471	mg/kg	0.0035	0.0117	1		05/17/01	GLS
Indeno(1,2,3-cd)Pyrene	<0.00229	mg/kg	0.0017	0.00566	1		05/17/01	GLS
1-Methyl Naphthalene	<0.0039	mg/kg	0.0029	0.00966	1		05/17/01	GLS
2-Methyl Naphthalene	<0.0031	mg/kg	0.0023	0.00766	1		05/17/01	GLS
Naphthalene	<0.00525	mg/kg	0.0039	0.013	1		05/17/01	GLS
Phenanthrene	0.0637	mg/kg	0.0016	0.00533	1		05/17/01	GLS
Pyrene	0.0095	mg/kg	0.0031	0.0103	1	J	05/17/01	GLS
Solid Organic Extraction	COMP		3.0	9.99	-		05/11/01	CKV
MOSA21-2								
Total Solids	74.3	%	0.33	1.1	-		05/07/01	LMV
WI DNR								
Soil Diesel Range Organics	8.34	mg/kg	2.15	7.16	1	D3	05/17/01	LTD
Soil Org Ext - DRO	COMP		-	-	-		05/16/01	CKV

All results calculated on a dry weight basis.

REQUEST FOR SERVICES

US Filter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: Jim Westerman
Company: Sigma Env.
Address: 220 E. Ryan Rd
Oak Creek, WI 53154
Phone: (414) 768-7144
P. O. #
Project # 6515 Quote #
Location West Allis

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- ☐ Groundwater
- ☐ Wastewater
- ☐ Soil/Solid
- ☐ Drinking Water
- ☐ Oil
- ☐ Vapor
- ☐ Other

Turnaround Time
- ☐ Normal
- ☐ Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	VOC					REMARKS
40070020	5/1/01	4:30P		2	~~SHA~~-4 3-5'	X					

Del'v: Hand Comm
Ship. Cont. OK Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A _°C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
	5/2/01 11:30A	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* / DATE/TIME
		5-3-01 10:40

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sample Receipt Report

Client: Sigma (Oak Creek) Date Received: 5/31/01

Analytical No.: 4007010 Through 4007020

Check all deviations from EPA or WDNR sample protocol.

[ ] Sample(s) received at ____°C which is above the EPA and WDNR limit of 4°C.

[ ] VOC vial(s) received with headspace. Explain: _____

[ ] Sample(s) received in bottles not furnished by Enviroscan. Preservation method, if used, is unknown.

[ ] Sample(s) not properly preserved per EPA/WDNR protocol for the following: _____

[ ] Sample(s) received beyond EPA holding time for: _____

[ ] Sample date/time not supplied by client. Actual holding time unknown.

[ ] GRO/PVOC/VOC/DRO (circle appropriate) sample(s) are < 19.5 gms and this report is the flag for that information. Sample(s) under-weight: _____

[+] GRO/PVOC/VOC (circle appropriate) sample(s) were between 26.4-35.4 gms so methanol was added in a 1:1 ratio. Sample(s) included: 4007010 +3ml, 7015 +2, 7016 +3, 7017 +3, 7018 +3, 7019 +2, 7020 +2.

[ ] GRO/PVOC/VOC/DRO (circle appropriate) sample(s) were >35.4 gms and are required to be rejected. Sample(s) included: _____

[ ] Other: _____

Client contact concerning the above deviations:

Client _____ (contact name) notified of the above deviation(s) on ___/___/__ at ___:___ am/pm by _____ and the client ordered:
(signature)

[ ] Proceed with analyses as ordered.

[ ] Proceed with analyses after taking the following corrective action: _____

[ ] Do NOT proceed with analyses.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.15
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Qualifier Descriptions

CSL	Check standard for this analyte exhibited a low bias. Sample results may also be biased low.
LCL	The laboratory control sample for this analyte exibited a low bias. Sample results may also be biased low.
DUP	Result of duplicate analysis in this quality assurance batch exceeds the limits for precision.
J	Estimated concentration below laboratory quantitation level.
D1	The chromatogram is characteristic for a fuel oil/ diesel. (i.e. #1 or #2 Diesel, jet fuel, kerosene, aged or degraded diesel, etc.)
D3	The chromatogram is not characteristic for diesel or any single common petroleum product.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.9
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **HA-1 1-3'** Matrix: **SOIL** Sample Date/Time: **05/01/01 14:20** Lab No. **070015**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/14/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/14/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL	05/14/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/14/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/14/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/14/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/14/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/14/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	LCL DUP	05/14/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/14/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/14/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL DUP	05/14/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/14/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/14/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/14/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Tetrachloroethylene	2.20	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/14/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/14/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1	LCL	05/14/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/14/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
MOSA21-2								
Total Solids	87.6	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.10
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **HA-1 7-9'** Matrix: **SOIL** Sample Date/Time: **05/01/01 14:30** Lab No. **070016**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/14/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/14/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL	05/14/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/14/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/14/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/14/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/14/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/14/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	LCL DUP	05/14/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/14/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/14/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL DUP	05/14/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/14/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/14/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/14/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Tetrachloroethylene	0.149	mg/kg	0.005	0.0167	1		05/15/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/14/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/14/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1	LCL	05/14/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/14/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
MOSA21-2								
Total Solids	82.5	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.11
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **HA-2 3-5'** Matrix: **SOIL** Sample Date/Time: **05/01/01 15:00** Lab No. **070017**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/14/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/14/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL	05/14/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/14/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/14/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/14/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/14/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/14/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	LCL DUP	05/14/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/14/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/14/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL DUP	05/14/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/14/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/14/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/14/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Tetrachloroethylene	0.665	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/14/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/14/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1	LCL	05/14/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/14/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
MOSA21-2								
Total Solids	82.8	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.12
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **HA-3 5-7'** Matrix: **SOIL** Sample Date/Time: **05/01/01 15:30** Lab No. **070018**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/14/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/14/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL	05/14/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/14/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/14/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/14/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/14/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/14/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	LCL DUP	05/14/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/14/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/14/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL DUP	05/14/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/14/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/14/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/14/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Tetrachloroethylene	41.6	mg/kg	0.005	0.0167	50		05/15/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/14/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/14/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1	LCL	05/14/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/14/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
MOSA21-2								
Total Solids	81.3	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

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ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.13
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **HA-3 7-9'** Matrix: **SOIL** Sample Date/Time: **05/01/01 16:00** Lab No. **070019**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/14/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/14/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL DUP	05/14/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/14/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/14/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/14/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/14/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/14/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	CSL LCL DUP	05/14/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/14/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/14/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/14/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/14/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1	CSL	05/14/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/14/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Tetrachloroethylene	24.2	mg/kg	0.005	0.0167	50		05/15/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/14/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/14/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/14/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
MOSA21-2								
Total Solids	88.7	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

USFilter

ENVIROSCAN SERVICES
301 WEST MILITARY ROAD
ROTHSCHILD, WI 54474

TELEPHONE 800-338-7226
FACSIMILE 715-355-3221

Sigma Environmental Services Inc.
220 East Ryan Road
Oak Creek, WI 53154-4533

PROJECT NO.: 6515
REPORT NO. : 070010.14
DATE REC'D : 05/03/01
REPORT DATE: 05/18/01
PREPARED BY: GLS

Attn: Jim Westerman

Sample ID: **HA-4 3-5'** Matrix: **SOIL** Sample Date/Time: **05/01/01 16:40** Lab No. **070020**

	Result	Units	LOD	LOQ	Dilution Factor	Qualifiers	Date Analyzed	Analyst
EPA 8021 (Only positively identified analytes are reported on a dry weight basis								
Benzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Bromobenzene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Bromodichloromethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
n-Butylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
sec-Butylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
tert-Butylbenzene	<0.025	mg/kg	0.003	0.00999	1		05/14/01	LMP
Carbon Tetrachloride	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Chlorobenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chlorodibromomethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Chloroethane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Chloroform	<0.025	mg/kg	0.016	0.0533	1		05/14/01	LMP
Chloromethane	<0.025	mg/kg	0.011	0.0366	1	CSL LCL DUP	05/14/01	LMP
2-Chlorotoluene	<0.025	mg/kg	0.012	0.04	1		05/14/01	LMP
4-Chlorotoluene	<0.025	mg/kg	0.014	0.0466	1		05/14/01	LMP
1,2-Dibromo-3-chloropropane	<0.025	mg/kg	0.019	0.0633	1		05/14/01	LMP
1,2-Dibromoethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichlorobenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3-Dichlorobenzene	<0.025	mg/kg	0.011	0.0366	1		05/14/01	LMP
1,4-Dichlorobenzene	<0.025	mg/kg	0.013	0.0433	1		05/14/01	LMP
Dichlorodifluoromethane	<0.025	mg/kg	0.017	0.0566	1	CSL LCL DUP	05/14/01	LMP
1,1-Dichloroethane	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
1,2-Dichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
1,1-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
cis-1,2-Dichloroethylene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
trans-1,2-Dichloroethylene	<0.025	mg/kg	0.009	0.03	1		05/14/01	LMP
1,2-Dichloropropane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,3-Dichloropropane	<0.025	mg/kg	0.017	0.0566	1		05/14/01	LMP
2,2-Dichloropropane	<0.025	mg/kg	0.012	0.04	1	CSL LCL	05/14/01	LMP
Ethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
Hexachlorobutadiene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Isopropylbenzene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Isopropyl Ether	<0.025	mg/kg	0.017	0.0566	1	CSL LCL	05/14/01	LMP
p-Isopropyltoluene	<0.025	mg/kg	0.006	0.02	1		05/14/01	LMP
Methyl t-Butyl Ether(MTBE)	<0.025	mg/kg	0.018	0.0599	1	CSL	05/14/01	LMP
Methylene Chloride	<0.025	mg/kg	0.005	0.0167	1	CSL	05/14/01	LMP
Naphthalene	<0.025	mg/kg	0.018	0.0599	1		05/14/01	LMP
n-Propylbenzene	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Tetrachloroethylene	5.86	mg/kg	0.005	0.0167	50		05/15/01	LMP
1,1,2,2-Tetrachloroethane	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
Toluene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
1,2,3-Trichlorobenzene	<0.025	mg/kg	0.015	0.05	1		05/14/01	LMP
1,2,4-Trichlorobenzene	<0.025	mg/kg	0.013	0.0433	1	DUP	05/14/01	LMP
1,1,1-Trichloroethane	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
1,1,2-Trichloroethane	<0.025	mg/kg	0.004	0.0133	1		05/14/01	LMP
Trichloroethylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Trichlorofluoromethane	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,2,4-Trimethylbenzene	<0.025	mg/kg	0.007	0.0233	1		05/14/01	LMP
1,3,5-Trimethylbenzene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
Vinyl Chloride	<0.025	mg/kg	0.009	0.03	1	CSL LCL	05/14/01	LMP
m- & p-Xylene	<0.025	mg/kg	0.008	0.0266	1		05/14/01	LMP
o-Xylene	<0.025	mg/kg	0.005	0.0167	1		05/14/01	LMP
MOSA21-2								
Total Solids	88.9	%	0.33	1.1	-		05/07/01	LMV

All results calculated on a dry weight basis.

REQUEST FOR SERVICES USFilter

ENVIROSCAN SERVICES 301 W. MILITARY RD. ROTHSCHILD, WI 54474 1-800-338-SCAN

REPORT TO:
Name: Jim westermon
Company: Sigma Environmental
Address: 220 E. Ryan Rd
Oak Creek, WI 53154
Phone: (414) 768-7144
P. O. #
Project # 6515 Quote #
Location West Allis

BILL TO: (if different from Report To info)
Name:
Company:
Address:
Phone: ( )

Sample Type
(Check all that apply)
- ☐ Groundwater
- ☐ Wastewater
- ☒ Soil/Solid
- ☐ Drinking Water
- ☐ Oil
- ☐ Vapor
- ☐ Other

Turnaround Time
- ☒ Normal
- ☐ Rush (Pre-approved by Lab)

Date Needed
Approved By

ANALYTICAL REQUESTS
(use separate sheet if necessary)

LAB USE ONLY	DATE	TIME	No. of Containers COMP	No. of Containers GRAB	SAMPLE ID	1TS cup	VOCs 2oz gl jar	DRO 2oz cup jar	PAH 8oz jar			REMARKS
40070010	5/1/01	11:00A		2	GP-1 2-4'	X	X	X				
40070011	5/1/01	11:20A		4	GP-1 4-6'	X	X	X				High PID
40070012	5/1/01	11:40A		3	GP-2 7-9'		X	X				
40070013	5/1/01	12:00P		3	GP-3 3-5'		X	X				High PID
40070014	5/1/01	1:15P		3	GP-4 3-5'		X	X				—
40070015	5/1/01	2:20P		2	HA-1 1-3'	X						
40070016	5/1/01	2:30P		2	HA-1 7-9'	X						
40070017	5/1/01	3:00P		2	HA-2 3-5'	X						
40070018	5/1/01	3:30P		2	HA-3 5-7'	X						
40070019	5/1/01	4:00P		2	HA-3 7-9'	X						

Del'v: Hand Comm
Ship. Cont. OK — Y N N/A
Samples leaking? Y N N/A
Seals OK? Y N N/A
Rec'd on ice? Y N N/A °C

Comments:

CHAIN OF CUSTODY RECORD

SAMPLERS: *(Signature)*

RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
	5/2/01 1100	
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED BY: *(Signature)*
RELINQUISHED BY: *(Signature)*	DATE/TIME	RECEIVED FOR LABORATORY BY: *(Signature)* DATE/TIME
		5-3-01 1015

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

28 November 2001

Jim Westerman
Sigma Environmental Services, Inc.
220 E. Ryan Road
Oak Creek, WI 53154

RE: 6515

Enclosed are the results of analyses for samples received by the laboratory on 11/12/01 07:46. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Stathas
Project Manager

State of Wisconsin Certification Numbers:
Great Lakes Analytical--Oak Creek, WI: 341000330
Great Lakes Analytical--Buffalo Grove, IL: 999917160

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1 2-4'	W111082-01	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-1 6-8'	W111082-02	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-6 4-6'	W111082-03	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-6 8-10'	W111082-04	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-5 4-6'	W111082-05	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-5 10-12'	W111082-06	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-4 0-2'	W111082-07	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-4 6-8'	W111082-08	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-3 0-2'	W111082-09	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-3 6-8'	W111082-10	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-2 6-8'	W111082-11	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MW-2 12-14'	W111082-12	Soil (WI)	11/09/01 00:00	11/12/01 07:46
MeOH BLANK	W111082-13	MeOH Blank	11/09/01 00:00	11/12/01 07:46

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Diesel Range Organics (DRO) by WDNR DRO
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 4-6' (W111082-03) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
Diesel Range Organics (DRO)	**9.45**	5.79	mg/kg dry	1	1110037	11/12/01	11/13/01	WDNR DRO	T10,T6,T15,T2,T8,T11
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
Diesel Range Organics (DRO)	ND	5.83	mg/kg dry	1	1110037	11/12/01	11/12/01	WDNR DRO	
MW-5 4-6' (W111082-05) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
Diesel Range Organics (DRO)	**2180**	329	mg/kg dry	51	1110037	11/12/01	11/12/01	WDNR DRO	G12,T10,T8
MW-5 10-12' (W111082-06) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
Diesel Range Organics (DRO)	**18.0**	5.84	mg/kg dry	1	1110037	11/12/01	11/12/01	WDNR DRO	T10,T8,T15,T2,T6
MW-4 0-2' (W111082-07) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
Diesel Range Organics (DRO)	ND	6.23	mg/kg dry	1	1110037	11/12/01	11/12/01	WDNR DRO	
MW-4 6-8' (W111082-08) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
Diesel Range Organics (DRO)	ND	5.83	mg/kg dry	1	1110037	11/12/01	11/12/01	WDNR DRO	

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Percent Solids

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 4-6' (W111082-03) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**86.3**	0.0100	%	1	1110048	11/14/01	11/14/01	Balance	
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**85.7**	0.0100	%	1	1110048	11/14/01	11/14/01	Balance	
MW-5 4-6' (W111082-05) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**77.5**	0.0100	%	1	1110048	11/14/01	11/14/01	Balance	
MW-5 10-12' (W111082-06) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**85.6**	0.0100	%	1	1110048	11/14/01	11/14/01	Balance	
MW-4 0-2' (W111082-07) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**80.3**	0.0100	%	1	1110048	11/14/01	11/14/01	Balance	
MW-4 6-8' (W111082-08) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**85.8**	0.0100	%	1	1110048	11/14/01	11/14/01	Balance	

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B (Blank Analysis)

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MeOH BLANK (W111082-13) MeOH Blank	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						
Benzene	ND	25.0	ug/l	50	1110320	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**82.0**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**119**	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B (Blank Analysis)

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MeOH BLANK (W111082-13) MeOH Blank	**Sampled: 11/09/01 00:00 Received: 11/12/01 07:46**								
Toluene	ND	25.0	ug/l	50	1110320	11/16/01	11/16/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*173 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*163 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*145 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*107 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 2-4' (W111082-01) Soil (WI)	**Sampled: 11/09/01 00:00**	**Received: 11/12/01 07:46**							**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**173**	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 2-4' (W111082-01) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Toluene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*131 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*111 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*20.5-166*		"	"	"	"	
MW-1 6-8' (W111082-02) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**75.0**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 6-8' (W111082-02) Soil (WI)	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						**G3,G4,G19**
1,1-Dichloroethene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*144 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*136 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*120 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.0 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 4-6' (W111082-03) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**69.6**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**140**	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 4-6' (W111082-03) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Toluene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*117 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*111 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*101 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*75.3 %*	*20.5-166*		"	"	"	"	
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
1,1-Dichloroethene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**159**	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*154 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*145 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*129 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.5 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 4-6' (W111082-05) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	**37.0**	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	**6220**	25.0	"	"	"	"	"	"	
sec-Butylbenzene	**6710**	25.0	"	"	"	"	"	"	
tert-Butylbenzene	**132**	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**87.0**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	**75.4**	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	**2700**	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	**4700**	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 4-6' (W111082-05) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Toluene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**97.3**	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	**48.6**	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*124 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*121 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*107 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.2 %*	*20.5-166*		"	"	"	"	
MW-5 10-12' (W111082-06) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	**527**	25.0	"	"	"	"	"	"	
sec-Butylbenzene	**463**	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**67.2**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 10-12' (W111082-06) Soil (WI)	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						**G3,G4,G19**
1,1-Dichloroethene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/16/01	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	**116**	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	**353**	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**94.0**	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*134 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*139 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*124 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*105 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 0-2' (W111082-07) Soil (WI)	**Sampled: 11/09/01 00:00**	**Received: 11/12/01 07:46**							**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/17/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**1830**	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 0-2' (W111082-07) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Toluene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/17/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*143 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*141 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*126 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*101 %*	*20.5-166*		"	"	"	"	
MW-4 6-8' (W111082-08) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/18/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**128**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 6-8' (W111082-08) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
1,1-Dichloroethene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/18/01	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	**43.4**	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**3080**	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	**116**	25.0	"	"	"	"	"	"	
Trichloroethene	**131**	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*58.4 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*144 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*84.3 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*60.1 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 0-2' (W111082-09) Soil (WI)	**Sampled: 11/09/01 00:00**	**Received: 11/12/01 07:46**							**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/17/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	11/18/01	"	
Chlorobenzene	ND	25.0	"	"	"	"	11/17/01	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**42200**	250	"	500	"	"	11/18/01	"	G12

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 0-2' (W111082-09) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Toluene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/17/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	11/18/01	"	
Trichloroethene	**128**	25.0	"	"	"	"	11/17/01	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*116 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*133 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*113 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.5 %*	*20.5-166*		"	"	"	"	
MW-3 6-8' (W111082-10) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19,G12**
Benzene	ND	1000	ug/kg dry	2000	1110319	11/16/01	11/20/01	EPA 8260B	
Bromobenzene	ND	1000	"	"	"	"	"	"	
Bromodichloromethane	ND	1000	"	"	"	"	"	"	
n-Butylbenzene	ND	1000	"	"	"	"	"	"	
sec-Butylbenzene	ND	1000	"	"	"	"	"	"	
tert-Butylbenzene	ND	1000	"	"	"	"	"	"	
Carbon tetrachloride	ND	1000	"	"	"	"	"	"	
Chlorobenzene	ND	1000	"	"	"	"	"	"	
Chloroethane	ND	1000	"	"	"	"	"	"	
Chloroform	ND	1000	"	"	"	"	"	"	
Chloromethane	ND	1000	"	"	"	"	"	"	
2-Chlorotoluene	ND	1000	"	"	"	"	"	"	
4-Chlorotoluene	ND	1000	"	"	"	"	"	"	
Dibromochloromethane	ND	1000	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	1000	"	"	"	"	"	"	
1,2-Dibromoethane	ND	1000	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	1000	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	1000	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	1000	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	1000	"	"	"	"	"	"	
1,1-Dichloroethane	ND	1000	"	"	"	"	"	"	
1,2-Dichloroethane	ND	1000	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 6-8' (W111082-10) Soil (WI)	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						**G3,G4,G19,G12**
1,1-Dichloroethene	ND	1000	ug/kg dry	2000	1110319	11/16/01	11/20/01	EPA 8260B	
cis-1,2-Dichloroethene	ND	1000	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	1000	"	"	"	"	"	"	
1,2-Dichloropropane	ND	1000	"	"	"	"	"	"	
1,3-Dichloropropane	ND	1000	"	"	"	"	"	"	
2,2-Dichloropropane	ND	1000	"	"	"	"	"	"	
Di-isopropyl ether	ND	1000	"	"	"	"	"	"	
Ethylbenzene	ND	1000	"	"	"	"	"	"	
Hexachlorobutadiene	ND	1000	"	"	"	"	"	"	
Isopropylbenzene	ND	1000	"	"	"	"	"	"	
p-Isopropyltoluene	ND	1000	"	"	"	"	"	"	
Methylene chloride	ND	4000	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	1000	"	"	"	"	"	"	
Naphthalene	ND	1000	"	"	"	"	"	"	
n-Propylbenzene	ND	1000	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	1000	"	"	"	"	"	"	
Tetrachloroethene	**348000**	1000	"	"	"	"	"	"	G12
Toluene	ND	1000	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	1000	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	1000	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	1000	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	1000	"	"	"	"	"	"	
Trichloroethene	ND	1000	"	"	"	"	"	"	
Trichlorofluoromethane	ND	1000	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1000	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1000	"	"	"	"	"	"	
Vinyl chloride	ND	1000	"	"	"	"	"	"	
Total Xylenes	ND	1000	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*129 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*128 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*121 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*109 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 6-8' (W111082-11) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/18/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**114**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**1370**	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 6-8' (W111082-11) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Toluene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/18/01	EPA 8260B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*69.9 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*143 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*85.7 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*62.0 %*	*20.5-166*		"	"	"	"	
MW-2 12-14' (W111082-12) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G3,G4,G19**
Benzene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/17/01	EPA 8260B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	**83.5**	25.0	"	"	"	"	"	"	B
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 12-14' (W111082-12) Soil (WI)	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						**G3,G4,G19**
1,1-Dichloroethene	ND	25.0	ug/kg dry	50	1110319	11/16/01	11/17/01	EPA 8260B	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**118000**	500	"	1000	"	"	11/18/01	"	G12
Toluene	ND	25.0	"	50	"	"	11/17/01	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*109 %*	*24.5-178*		"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*140 %*	*16.7-220*		"	"	"	"	
Surrogate: Toluene-d8		*120 %*	*33.1-170*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*92.8 %*	*20.5-166*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Polynuclear Aromatic Compounds by EPA Method 8310

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 4-6' (W111082-03) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G1**
Acenaphthene	ND	116	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Acenaphthylene	ND	232	"	"	"	"	"	"	
Anthracene	ND	116	"	"	"	"	"	"	
Benz (a) anthracene	ND	57.9	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.79	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	57.9	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	116	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	116	"	"	"	"	"	"	
Chrysene	ND	116	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.79	"	"	"	"	"	"	
Fluoranthene	ND	116	"	"	"	"	"	"	
Fluorene	ND	116	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	57.9	"	"	"	"	"	"	
1-Methylnaphthalene	ND	116	"	"	"	"	"	"	
2-Methylnaphthalene	ND	116	"	"	"	"	"	"	
Naphthalene	ND	116	"	"	"	"	"	"	
Phenanthrene	ND	116	"	"	"	"	"	"	
Pyrene	ND	116	"	"	"	"	"	"	
Surrogate: Carbazole		*30.4 %*	*29-132*		"	"	"	"	
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G1**
Acenaphthene	ND	117	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Acenaphthylene	ND	233	"	"	"	"	"	"	
Anthracene	ND	117	"	"	"	"	"	"	
Benz (a) anthracene	ND	58.3	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.83	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	58.3	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	117	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	117	"	"	"	"	"	"	
Chrysene	ND	117	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.83	"	"	"	"	"	"	
Fluoranthene	ND	117	"	"	"	"	"	"	
Fluorene	ND	117	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	58.3	"	"	"	"	"	"	
1-Methylnaphthalene	ND	117	"	"	"	"	"	"	
2-Methylnaphthalene	ND	117	"	"	"	"	"	"	
Naphthalene	ND	117	"	"	"	"	"	"	
Phenanthrene	ND	117	"	"	"	"	"	"	
Pyrene	ND	117	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Polynuclear Aromatic Compounds by EPA Method 8310

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G1**
Surrogate: Carbazole		*83.5 %*	*29-132*		*1110289*	*11/15/01*	*11/16/01*	*EPA 8310*	
MW-5 4-6' (W111082-05) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G1**
Acenaphthene	ND	129	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Acenaphthylene	**1350**	258	"	"	"	"	"	"	
Anthracene	**713**	129	"	"	"	"	"	"	
Benz (a) anthracene	**611**	64.5	"	"	"	"	"	"	
Benzo (a) pyrene	ND	6.45	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	64.5	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	129	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	129	"	"	"	"	"	"	
Chrysene	**181**	129	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	6.45	"	"	"	"	"	"	
Fluoranthene	**3190**	2580	"	20	"	"	11/19/01	"	G12
Fluorene	**1700**	129	"	1	"	"	11/16/01	"	
Indeno (1,2,3-cd) pyrene	ND	64.5	"	"	"	"	"	"	
1-Methylnaphthalene	**8320**	2580	"	20	"	"	11/19/01	"	G12
2-Methylnaphthalene	**7680**	2580	"	"	"	"	"	"	G12
Naphthalene	**1020**	129	"	1	"	"	11/16/01	"	
Phenanthrene	**5220**	2580	"	20	"	"	11/19/01	"	G12
Pyrene	**12400**	2580	"	"	"	"	"	"	G12
Surrogate: Carbazole		*772 %*	*29-132*		"	"	*11/16/01*	"	*O5*
MW-5 10-12' (W111082-06) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G1**
Acenaphthene	ND	117	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Acenaphthylene	ND	234	"	"	"	"	"	"	
Anthracene	ND	117	"	"	"	"	"	"	
Benz (a) anthracene	ND	58.4	"	"	"	"	"	"	
Benzo (a) pyrene	**6.68**	5.84	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	58.4	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	117	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	117	"	"	"	"	"	"	
Chrysene	ND	117	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.84	"	"	"	"	"	"	
Fluoranthene	ND	117	"	"	"	"	"	"	
Fluorene	ND	117	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	58.4	"	"	"	"	"	"	
1-Methylnaphthalene	ND	117	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Polynuclear Aromatic Compounds by EPA Method 8310

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 10-12' (W111082-06) Soil (WI)	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						**G1**
2-Methylnaphthalene	ND	117	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Naphthalene	ND	117	"	"	"	"	"	"	
Phenanthrene	ND	117	"	"	"	"	"	"	
Pyrene	**217**	117	"	"	"	"	"	"	
Surrogate: Carbazole		*108 %*	*29-132*		"	"	"	"	
MW-4 0-2' (W111082-07) Soil (WI)	**Sampled: 11/09/01 00:00**		**Received: 11/12/01 07:46**						**G1**
Acenaphthene	**163**	125	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Acenaphthylene	ND	249	"	"	"	"	"	"	
Anthracene	ND	125	"	"	"	"	"	"	
Benz (a) anthracene	ND	62.3	"	"	"	"	"	"	
Benzo (a) pyrene	**68.2**	6.23	"	"	"	"	"	"	
Benzo (b) fluoranthene	**70.1**	62.3	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	125	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	125	"	"	"	"	"	"	
Chrysene	ND	125	"	"	"	"	"	"	
Dibenz (a,h) anthracene	**35.0**	6.23	"	"	"	"	"	"	
Fluoranthene	**406**	125	"	"	"	"	"	"	
Fluorene	ND	125	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	62.3	"	"	"	"	"	"	
1-Methylnaphthalene	ND	125	"	"	"	"	"	"	
2-Methylnaphthalene	ND	125	"	"	"	"	"	"	
Naphthalene	ND	125	"	"	"	"	"	"	
Phenanthrene	ND	125	"	"	"	"	"	"	
Pyrene	**185**	125	"	"	"	"	"	"	
Surrogate: Carbazole		*66.0 %*	*29-132*		"	"	"	"	

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Polynuclear Aromatic Compounds by EPA Method 8310

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 6-8' (W111082-08) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									**G1**
Acenaphthene	ND	117	ug/kg dry	1	1110289	11/15/01	11/16/01	EPA 8310	
Acenaphthylene	ND	233	"	"	"	"	"	"	
Anthracene	ND	117	"	"	"	"	"	"	
Benz (a) anthracene	ND	58.3	"	"	"	"	"	"	
Benzo (a) pyrene	ND	5.83	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	58.3	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	117	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	117	"	"	"	"	"	"	
Chrysene	ND	117	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	5.83	"	"	"	"	"	"	
Fluoranthene	ND	117	"	"	"	"	"	"	
Fluorene	ND	117	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	58.3	"	"	"	"	"	"	
1-Methylnaphthalene	ND	117	"	"	"	"	"	"	
2-Methylnaphthalene	ND	117	"	"	"	"	"	"	
Naphthalene	ND	117	"	"	"	"	"	"	
Phenanthrene	ND	117	"	"	"	"	"	"	
Pyrene	ND	117	"	"	"	"	"	"	
Surrogate: Carbazole		*77.6 %*	*29-132*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Percent Solids

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 2-4' (W111082-01) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**81.8**	0.100	%	1	1110267	11/15/01	11/16/01	Balance	
MW-1 6-8' (W111082-02) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**84.7**	0.100	%	1	1110267	11/15/01	11/16/01	Balance	
MW-6 4-6' (W111082-03) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**86.3**	0.100	%	1	1110267	11/15/01	11/15/01	Balance	
MW-6 8-10' (W111082-04) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**85.7**	0.100	%	1	1110267	11/15/01	11/15/01	Balance	
MW-5 4-6' (W111082-05) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**77.5**	0.100	%	1	1110267	11/15/01	11/15/01	Balance	
MW-5 10-12' (W111082-06) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**85.6**	0.100	%	1	1110267	11/15/01	11/15/01	Balance	
MW-4 0-2' (W111082-07) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**80.3**	0.100	%	1	1110267	11/15/01	11/15/01	Balance	
MW-4 6-8' (W111082-08) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**85.8**	0.100	%	1	1110267	11/15/01	11/15/01	Balance	
MW-3 0-2' (W111082-09) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**80.1**	0.100	%	1	1110267	11/15/01	11/16/01	Balance	

Great Lakes Analytical--Oak Creek

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Percent Solids

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 6-8' (W111082-10) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**87.1**	0.100	%	1	1110267	11/15/01	11/16/01	Balance	
MW-2 6-8' (W111082-11) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**86.0**	0.100	%	1	1110267	11/15/01	11/16/01	Balance	
MW-2 12-14' (W111082-12) Soil (WI) Sampled: 11/09/01 00:00 Received: 11/12/01 07:46									
% Solids	**89.9**	0.100	%	1	1110267	11/15/01	11/16/01	Balance	

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Diesel Range Organics (DRO) by WDNR DRO - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110037 - EPA 3550B										
Blank (1110037-BLK1)				Prepared & Analyzed: 11/12/01						
Diesel Range Organics (DRO)	ND	5.00	mg/kg wet							
LCS (1110037-BS1)				Prepared & Analyzed: 11/12/01						
Diesel Range Organics (DRO)	35.2	5.00	mg/kg wet	40.0		88.0	70-120			
LCS Dup (1110037-BSD1)				Prepared & Analyzed: 11/12/01						
Diesel Range Organics (DRO)	34.6	5.00	mg/kg wet	40.0		86.5	70-120	1.72	20	

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WDNR Volatile Organic Compounds by Method 8260B - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110319 - EPA 5030B [MeOH]										
Blank (1110319-BLK1)				Prepared: 11/16/01 Analyzed: 11/17/01						
Benzene	ND	25.0	ug/kg wet							
Bromobenzene	ND	25.0	"							
Bromodichloromethane	ND	25.0	"							
n-Butylbenzene	ND	25.0	"							
sec-Butylbenzene	ND	25.0	"							
tert-Butylbenzene	ND	25.0	"							
Carbon tetrachloride	ND	25.0	"							
Chlorobenzene	ND	25.0	"							
Chloroethane	ND	25.0	"							
Chloroform	ND	25.0	"							
Chloromethane	62.5	25.0	"							
2-Chlorotoluene	ND	25.0	"							
4-Chlorotoluene	ND	25.0	"							
Dibromochloromethane	ND	25.0	"							
1,2-Dibromo-3-chloropropane	ND	25.0	"							
1,2-Dibromoethane	ND	25.0	"							
1,2-Dichlorobenzene	ND	25.0	"							
1,3-Dichlorobenzene	ND	25.0	"							
1,4-Dichlorobenzene	ND	25.0	"							
Dichlorodifluoromethane	ND	25.0	"							
1,1-Dichloroethane	ND	25.0	"							
1,2-Dichloroethane	ND	25.0	"							
1,1-Dichloroethene	ND	25.0	"							
cis-1,2-Dichloroethene	ND	25.0	"							
trans-1,2-Dichloroethene	ND	25.0	"							
1,2-Dichloropropane	ND	25.0	"							
1,3-Dichloropropane	ND	25.0	"							
2,2-Dichloropropane	ND	25.0	"							
Di-isopropyl ether	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
Hexachlorobutadiene	ND	25.0	"							
Isopropylbenzene	ND	25.0	"							
p-Isopropyltoluene	ND	25.0	"							
Methylene chloride	ND	100	"							
Methyl tert-butyl ether	ND	25.0	"							

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110319 - EPA 5030B [MeOH]										
Blank (1110319-BLK1)				Prepared: 11/16/01 Analyzed: 11/17/01						
Naphthalene	ND	25.0	ug/kg wet							
n-Propylbenzene	ND	25.0	"							
1,1,2,2-Tetrachloroethane	ND	25.0	"							
Tetrachloroethene	ND	25.0	"							
Toluene	ND	25.0	"							
1,2,3-Trichlorobenzene	ND	25.0	"							
1,2,4-Trichlorobenzene	ND	25.0	"							
1,1,1-Trichloroethane	ND	25.0	"							
1,1,2-Trichloroethane	ND	25.0	"							
Trichloroethene	ND	25.0	"							
Trichlorofluoromethane	ND	25.0	"							
1,2,4-Trimethylbenzene	ND	25.0	"							
1,3,5-Trimethylbenzene	ND	25.0	"							
Vinyl chloride	ND	25.0	"							
Total Xylenes	ND	25.0	"							
Surrogate: Dibromofluoromethane	*53.7*		"	*500*		*10.7*	*24.5-178*			
Surrogate: 1,2-Dichloroethane-d4	*62.1*		"	*500*		*12.4*	*16.7-220*			
Surrogate: Toluene-d8	*52.8*		"	*500*		*10.6*	*33.1-170*			
Surrogate: 4-Bromofluorobenzene	*40.3*		"	*500*		*8.06*	*20.5-166*			
LCS (1110319-BS1)				Prepared: 11/16/01 Analyzed: 11/17/01						
Benzene	59.8	0.500	ug/kg wet	50.0		120	79.5-123			
Bromobenzene	47.6	0.500	"	50.0		95.2	83.3-121			
Bromodichloromethane	61.6	0.500	"	50.0		123	72.6-147			
n-Butylbenzene	43.1	0.500	"	50.0		86.2	37.9-143			
sec-Butylbenzene	45.3	0.500	"	50.0		90.6	63.8-131			
tert-Butylbenzene	48.8	0.500	"	50.0		97.6	69.5-125			
Carbon tetrachloride	54.6	0.500	"	50.0		109	56.6-150			
Chlorobenzene	52.4	0.500	"	50.0		105	86.6-115			
Chloroethane	40.5	0.500	"	50.0		81.0	10-282			
Chloroform	64.0	0.500	"	50.0		128	81.1-127			
Chloromethane	40.5	0.500	"	50.0		81.0	48.8-131			
2-Chlorotoluene	44.1	0.500	"	50.0		88.2	82.7-121			
4-Chlorotoluene	44.4	0.500	"	50.0		88.8	65-120			
Dibromochloromethane	48.8	0.500	"	50.0		97.6	24.4-161			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110319 - EPA 5030B [MeOH]										
LCS (1110319-BS1)				Prepared: 11/16/01 Analyzed: 11/17/01						
1,2-Dibromo-3-chloropropane	40.0	0.500	ug/kg wet	50.0		80.0	26.4-170			
1,2-Dibromoethane	51.3	0.500	"	50.0		103	56-124			
1,2-Dichlorobenzene	47.3	0.500	"	50.0		94.6	72.6-117			
1,3-Dichlorobenzene	49.7	0.500	"	50.0		99.4	75-117			
1,4-Dichlorobenzene	45.9	0.500	"	50.0		91.8	77.1-115			
Dichlorodifluoromethane	18.4	0.500	"	50.0		36.8	10-148			
1,1-Dichloroethane	44.8	0.500	"	50.0		89.6	72.4-120			
1,2-Dichloroethane	62.7	0.500	"	50.0		125	67.2-132			
1,1-Dichloroethene	49.5	0.500	"	50.0		99.0	52.1-134			
cis-1,2-Dichloroethene	55.5	0.500	"	50.0		111	64.4-130			
trans-1,2-Dichloroethene	54.9	0.500	"	50.0		110	64.7-127			
1,2-Dichloropropane	60.4	0.500	"	50.0		121	81.1-113			
1,3-Dichloropropane	49.8	0.500	"	50.0		99.6	75.4-122			
2,2-Dichloropropane	45.0	0.500	"	50.0		90.0	10-186			
Di-isopropyl ether	103	0.500	"	100		103	10-220			
Ethylbenzene	51.4	0.500	"	50.0		103	86.1-118			
Hexachlorobutadiene	42.9	0.500	"	50.0		85.8	51.5-153			
Isopropylbenzene	48.8	0.500	"	50.0		97.6	71.4-127			
p-Isopropyltoluene	51.3	0.500	"	50.0		103	62.1-125			
Methylene chloride	59.9	2.00	"	50.0		120	71.6-121			
Methyl tert-butyl ether	60.0	0.500	"	50.0		120	61.8-132			
Naphthalene	46.9	0.500	"	50.0		93.8	10-170			
n-Propylbenzene	44.2	0.500	"	50.0		88.4	65.7-127			
1,1,2,2-Tetrachloroethane	11.0	0.500	"	50.0		22.0	10-182			
Tetrachloroethene	55.9	0.500	"	50.0		112	73.5-130			
Toluene	61.2	0.500	"	50.0		122	84.1-126			
1,2,3-Trichlorobenzene	43.2	0.500	"	50.0		86.4	10-232			
1,2,4-Trichlorobenzene	43.3	0.500	"	50.0		86.6	24.3-154			
1,1,1-Trichloroethane	64.4	0.500	"	50.0		129	72.6-134			
1,1,2-Trichloroethane	59.9	0.500	"	50.0		120	74.2-129			
Trichloroethene	94.5	0.500	"	50.0		189	51.3-170			
Trichlorofluoromethane	4.82	0.500	"	50.0		9.64	10-298			
1,2,4-Trimethylbenzene	49.6	0.500	"	50.0		99.2	52.3-142			
1,3,5-Trimethylbenzene	48.9	0.500	"	50.0		97.8	59.6-132			
Vinyl chloride	38.8	0.500	"	50.0		77.6	50.7-138			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110319 - EPA 5030B [MeOH]										
LCS (1110319-BS1)				Prepared: 11/16/01 Analyzed: 11/17/01						
Total Xylenes	159	0.500	ug/kg wet	150		106	53.9-138			
Surrogate: Dibromofluoromethane	*48.0*		"	*500*		*9.60*	*24.5-178*			
Surrogate: 1,2-Dichloroethane-d4	*65.0*		"	*500*		*13.0*	*16.7-220*			
Surrogate: Toluene-d8	*57.3*		"	*500*		*11.5*	*33.1-170*			
Surrogate: 4-Bromofluorobenzene	*45.9*		"	*500*		*9.18*	*20.5-166*			
LCS Dup (1110319-BSD1)				Prepared: 11/16/01 Analyzed: 11/17/01						
Benzene	61.4	0.500	ug/kg wet	50.0		123	79.5-123	2.64	14.8	
Bromobenzene	48.0	0.500	"	50.0		96.0	83.3-121	0.837	15	
Bromodichloromethane	61.0	0.500	"	50.0		122	72.6-147	0.979	14.6	
n-Butylbenzene	44.8	0.500	"	50.0		89.6	37.9-143	3.87	31.9	
sec-Butylbenzene	46.8	0.500	"	50.0		93.6	63.8-131	3.26	31.8	
tert-Butylbenzene	51.5	0.500	"	50.0		103	69.5-125	5.38	23.3	
Carbon tetrachloride	56.4	0.500	"	50.0		113	56.6-150	3.24	38.5	
Chlorobenzene	53.4	0.500	"	50.0		107	86.6-115	1.89	11.4	
Chloroethane	43.4	0.500	"	50.0		86.8	10-282	6.91	74.6	
Chloroform	66.5	0.500	"	50.0		133	81.1-127	3.83	21.2	
Chloromethane	40.4	0.500	"	50.0		80.8	48.8-131	0.247	30.7	
2-Chlorotoluene	44.0	0.500	"	50.0		88.0	82.7-121	0.227	17	
4-Chlorotoluene	43.9	0.500	"	50.0		87.8	65-120	1.13	15.5	
Dibromochloromethane	49.9	0.500	"	50.0		99.8	24.4-161	2.23	18.8	
1,2-Dibromo-3-chloropropane	42.5	0.500	"	50.0		85.0	26.4-170	6.06	31.6	
1,2-Dibromoethane	52.5	0.500	"	50.0		105	56-124	2.31	45.5	
1,2-Dichlorobenzene	48.0	0.500	"	50.0		96.0	72.6-117	1.47	14.4	
1,3-Dichlorobenzene	50.5	0.500	"	50.0		101	75-117	1.60	12.3	
1,4-Dichlorobenzene	46.6	0.500	"	50.0		93.2	77.1-115	1.51	14.1	
Dichlorodifluoromethane	18.6	0.500	"	50.0		37.2	10-148	1.08	95.4	
1,1-Dichloroethane	55.6	0.500	"	50.0		111	72.4-120	21.5	20.1	
1,2-Dichloroethane	62.5	0.500	"	50.0		125	67.2-132	0.319	18.2	
1,1-Dichloroethene	49.5	0.500	"	50.0		99.0	52.1-134	0.00	34.8	
cis-1,2-Dichloroethene	64.9	0.500	"	50.0		130	64.4-130	15.6	18.4	
trans-1,2-Dichloroethene	61.4	0.500	"	50.0		123	64.7-127	11.2	28.6	
1,2-Dichloropropane	60.0	0.500	"	50.0		120	81.1-113	0.664	12.3	
1,3-Dichloropropane	51.1	0.500	"	50.0		102	75.4-122	2.58	22.5	
2,2-Dichloropropane	44.3	0.500	"	50.0		88.6	10-186	1.57	128	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

WDNR Volatile Organic Compounds by Method 8260B - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110319 - EPA 5030B [MeOH]										
LCS Dup (1110319-BSD1)				Prepared: 11/16/01 Analyzed: 11/17/01						
Di-isopropyl ether	102	0.500	ug/kg wet	100		102	10-220	0.976	16.3	
Ethylbenzene	52.2	0.500	"	50.0		104	86.1-118	1.54	16.7	
Hexachlorobutadiene	48.4	0.500	"	50.0		96.8	51.5-153	12.0	37.4	
Isopropylbenzene	49.6	0.500	"	50.0		99.2	71.4-127	1.63	19.6	
p-Isopropyltoluene	53.1	0.500	"	50.0		106	62.1-125	3.45	26.5	
Methylene chloride	57.5	2.00	"	50.0		115	71.6-121	4.09	17.8	
Methyl tert-butyl ether	60.5	0.500	"	50.0		121	61.8-132	0.830	35.9	
Naphthalene	52.4	0.500	"	50.0		105	10-170	11.1	58.4	
n-Propylbenzene	45.0	0.500	"	50.0		90.0	65.7-127	1.79	22.5	
1,1,2,2-Tetrachloroethane	9.66	0.500	"	50.0		19.3	10-182	13.0	111	
Tetrachloroethene	55.9	0.500	"	50.0		112	73.5-130	0.00	27.2	
Toluene	62.5	0.500	"	50.0		125	84.1-126	2.10	14.3	
1,2,3-Trichlorobenzene	47.1	0.500	"	50.0		94.2	10-232	8.64	151	
1,2,4-Trichlorobenzene	45.6	0.500	"	50.0		91.2	24.3-154	5.17	38.1	
1,1,1-Trichloroethane	64.4	0.500	"	50.0		129	72.6-134	0.00	33.2	
1,1,2-Trichloroethane	59.3	0.500	"	50.0		119	74.2-129	1.01	23.7	
Trichloroethene	94.9	0.500	"	50.0		190	51.3-170	0.422	48	
Trichlorofluoromethane	3.85	0.500	"	50.0		7.70	10-298	22.4	97.2	
1,2,4-Trimethylbenzene	50.3	0.500	"	50.0		101	52.3-142	1.40	17.4	
1,3,5-Trimethylbenzene	49.2	0.500	"	50.0		98.4	59.6-132	0.612	20.3	
Vinyl chloride	39.0	0.500	"	50.0		78.0	50.7-138	0.514	40	
Total Xylenes	163	0.500	"	150		109	53.9-138	2.48	31.7	
Surrogate: Dibromofluoromethane	*49.3*		"	*500*		*9.86*	*24.5-178*			
Surrogate: 1,2-Dichloroethane-d4	*64.2*		"	*500*		*12.8*	*16.7-220*			
Surrogate: Toluene-d8	*58.3*		"	*500*		*11.7*	*33.1-170*			
Surrogate: 4-Bromofluorobenzene	*46.2*		"	*500*		*9.24*	*20.5-166*			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110289 - EPA 3550B										
Blank (1110289-BLK1)				Prepared: 11/15/01 Analyzed: 11/16/01						
Acenaphthene	ND	100	ug/kg wet							
Acenaphthylene	ND	200	"							
Anthracene	ND	100	"							
Benz (a) anthracene	ND	50.0	"							
Benzo (a) pyrene	5.40	5.00	"							
Benzo (b) fluoranthene	ND	50.0	"							
Benzo (ghi) perylene	ND	100	"							
Benzo (k) fluoranthene	ND	100	"							
Chrysene	ND	100	"							
Dibenz (a,h) anthracene	ND	5.00	"							
Fluoranthene	ND	100	"							
Fluorene	ND	100	"							
Indeno (1,2,3-cd) pyrene	ND	50.0	"							
1-Methylnaphthalene	ND	100	"							
2-Methylnaphthalene	ND	100	"							
Naphthalene	ND	100	"							
Phenanthrene	ND	100	"							
Pyrene	ND	100	"							
Surrogate: Carbazole	*15.5*		"	*16.8*		*92.3*	*29-132*			
LCS (1110289-BS1)				Prepared: 11/15/01 Analyzed: 11/16/01						
Acenaphthene	46.5	1.00	ug/kg wet	65.7		70.8	30.8-120			
Acenaphthylene	88.1	2.00	"	65.7		134	38.9-158			
Anthracene	55.7	1.00	"	65.7		84.8	32.9-122			
Benz (a) anthracene	54.9	0.500	"	65.7		83.6	40.5-125			
Benzo (a) pyrene	41.5	0.0500	"	65.7		63.2	31.2-128			
Benzo (b) fluoranthene	61.2	0.500	"	65.7		93.2	45-132			
Benzo (ghi) perylene	38.3	1.00	"	65.7		58.3	38.7-137			
Benzo (k) fluoranthene	81.9	1.00	"	65.7		125	53.4-125			
Chrysene	52.1	1.00	"	65.7		79.3	46.5-129			
Dibenz (a,h) anthracene	52.5	0.0500	"	65.7		79.9	42.8-134			
Fluoranthene	48.9	1.00	"	65.7		74.4	37.1-116			
Fluorene	59.8	1.00	"	65.7		91.0	40.8-108			
Indeno (1,2,3-cd) pyrene	70.1	0.500	"	65.7		107	51-115			
1-Methylnaphthalene	37.9	1.00	"	65.7		57.7	28.9-99.1			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110289 - EPA 3550B										
LCS (1110289-BS1)				Prepared: 11/15/01 Analyzed: 11/16/01						
2-Methylnaphthalene	43.0	1.00	ug/kg wet	65.7		65.4	28.9-102			
Naphthalene	52.0	1.00	"	65.7		79.1	22.7-116			
Phenanthrene	60.6	1.00	"	65.7		92.2	29.5-123			
Pyrene	44.8	1.00	"	65.7		68.2	44.5-118			
Surrogate: Carbazole	*13.7*		"	*16.4*		*83.5*	*29-132*			
Matrix Spike (1110289-MS1)		**Source: B111176-04**		Prepared: 11/15/01 Analyzed: 11/17/01						
Acenaphthene	32.9	1.18	ug/kg dry	80.7	ND	40.8	10-154			
Acenaphthylene	89.2	2.36	"	80.7	34.7	67.5	10-176			
Anthracene	38.8	1.18	"	80.7	ND	48.1	10-114			
Benz (a) anthracene	33.1	0.591	"	80.7	1.07	39.7	10-118			
Benzo (a) pyrene	28.8	0.0591	"	80.7	ND	35.7	10-133			
Benzo (b) fluoranthene	36.6	0.591	"	80.7	ND	45.4	10-126			
Benzo (ghi) perylene	20.7	1.18	"	80.7	ND	25.7	10-103			
Benzo (k) fluoranthene	42.6	1.18	"	80.7	ND	52.8	10-112			
Chrysene	31.0	1.18	"	80.7	ND	38.4	10-121			
Dibenz (a,h) anthracene	30.5	0.0591	"	80.7	ND	37.8	13.9-101			
Fluoranthene	30.7	1.18	"	80.7	ND	38.0	10-123			
Fluorene	38.7	1.18	"	80.7	ND	48.0	10-144			
Indeno (1,2,3-cd) pyrene	39.1	0.591	"	80.7	ND	48.5	10-103			
1-Methylnaphthalene	33.8	1.18	"	80.7	ND	41.9	10-113			
2-Methylnaphthalene	30.0	1.18	"	80.7	ND	37.2	10.6-108			
Naphthalene	37.2	1.18	"	80.7	ND	45.1	10-132			
Phenanthrene	148	1.18	"	80.7	ND	183	10-130			
Pyrene	27.5	1.18	"	80.7	1.64	32.0	10-145			
Surrogate: Carbazole	*9.57*		"	*20.2*		*47.4*	*29-132*			
Matrix Spike Dup (1110289-MSD1)		**Source: B111176-04**		Prepared: 11/15/01 Analyzed: 11/17/01						
Acenaphthene	38.5	1.18	ug/kg dry	80.2	ND	48.0	10-154	15.7	66.4	
Acenaphthylene	81.7	2.36	"	80.2	34.7	58.6	10-176	8.78	65.7	
Anthracene	45.4	1.18	"	80.2	ND	56.6	10-114	15.7	67.1	
Benz (a) anthracene	38.6	0.591	"	80.2	1.07	46.8	10-118	15.3	57.8	
Benzo (a) pyrene	35.1	0.0591	"	80.2	ND	43.8	10-133	19.7	54.5	
Benzo (b) fluoranthene	43.0	0.591	"	80.2	ND	53.6	10-126	16.1	51.9	
Benzo (ghi) perylene	23.2	1.18	"	80.2	ND	28.9	10-103	11.4	65.9	

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110289 - EPA 3550B										
Matrix Spike Dup (1110289-MSD1)		**Source: B111176-04**		Prepared: 11/15/01		Analyzed: 11/17/01				
Benzo (k) fluoranthene	51.9	1.18	ug/kg dry	80.2	ND	64.7	10-112	19.7	59.3	
Chrysene	40.4	1.18	"	80.2	ND	50.4	10-121	26.3	65.2	
Dibenz (a,h) anthracene	35.9	0.0591	"	80.2	ND	44.8	13.9-101	16.3	49.8	
Fluoranthene	41.1	1.18	"	80.2	ND	51.2	10-123	29.0	58.7	
Fluorene	45.6	1.18	"	80.2	ND	56.9	10-144	16.4	53.9	
Indeno (1,2,3-cd) pyrene	58.9	0.591	"	80.2	ND	73.4	10-103	40.4	55.8	
1-Methylnaphthalene	33.1	1.18	"	80.2	ND	41.3	10-113	2.09	75.1	
2-Methylnaphthalene	34.6	1.18	"	80.2	ND	43.1	10.6-108	14.2	94.5	
Naphthalene	43.6	1.18	"	80.2	ND	53.4	10-132	15.8	62.5	
Phenanthrene	94.2	1.18	"	80.2	ND	117	10-130	44.4	57.4	
Pyrene	32.0	1.18	"	80.2	1.64	37.9	10-145	15.1	56.6	
Surrogate: Carbazole	*10.2*		"	*20.0*		*51.0*	*29-132*			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	11/28/01 15:04

Notes and Definitions

B	The method blank associated with this sample contains 62.5 ug/kg of this analyte.
G1	The recovery of one or more analytes in the matrix QC (MS/MSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
G19	The relative percent difference (RPD) of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is above the laboratory's established acceptance limits. Refer to the included QC reports for more detail.
G3	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is above the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
G4	The recovery of one or more analytes in the laboratory control QC (BS/BSD) associated with this sample is below the laboratory's established acceptance criteria. Refer to the included QC reports for more detail.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
T10	Diesel Range
T11	Motor Oil Range
T15	Late Elevated Baseline
T2	Late Peaks
T6	Early Peaks
T8	Diesel Pattern
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

[redacted] Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

[redacted] Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Env.
Address: 220 E. Ryan Rd
Oak Creek, WI 53154
Report to: Jim Westerman
Phone #: (414) 768-7144
Fax #: (414) 768-7158

Bill To: Sigma Env.
Address: Same
State & Program: WI
Phone #: ( )
Fax #: ( )

TAT: (STD.) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: on ice
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515
Sampler: Martin Nessman
PO/Quote #:

#	FIELD ID, LOCATION	PID	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	VOC-8260	DRO	PAH	CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	MW-1 2-4'	0.1	11/9/01		S	1						1	2	X					W111082-01
2	MW-1 6-8'	0.9	11/9/01		S	1						1	2	X					-02
3	MW-6 4-6'	0.5	11/9/01		S	1						3	4	X	X	X			-03
4	MW-6 8-10'	0.9	11/9/01		S	1						3	4	X	X	X			-04
5	MW-5 4-6'	120	11/9/01		S	1						3	4	X	X	X			-05
6	MW-5 10-12'	8.2	11/9/01		S	1						3	4	X	X	X			-06
7	MW-4 0-2'	0.5	11/9/01		S	1						3	4	X	X	X			-07
8	MW-4 6-8'	1.3	11/9/01		S	1						3	4	X	X	X			-08
9	MW-3 0-2'	37	11/9/01		S	1						1	2	X					-09
10	MW-3 6-8'	155	11/9/01		S	1						1	2	X					-10

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	11-9-01 4:25P	[signature]	11/9/01 4:25P	[signature]	11-12-01 730		

COMMENTS:

PAGE OF

LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Env.	Bill To: Same	TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
Address: 220 E Ryan Rd	Address:	☐ YES - TAT is critical ☐ NO - TAT is not critical — DATE RESULTS NEEDED:
Oak Creek		TEMPERATURE UPON RECEIPT: on ice
Report to: Jim Westerman — Phone #: (414) 768-7141 Fax #: (414) 768-7158	State & Program: WI — Phone #: ( ) Fax #: ( )	Deliverable Package Needed: ☐ STD ☐ Other — Air Bill No.
Project: 6515		
Sampler: Martin Nessman		
PO/Quote #:		

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	ANALYSIS TYPE: VOC 8620	8260	jm 11/9	SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	MW-2 6-8' PID: 0.5	11/9/01		S	1						1	2	X					W111082-11
2	MW-2 12-14' PID: 42	11/9/01		S	1						1	2						-12
3	PID:																	-13
4	PID:																	
5	PID:																	
6	PID:																	
7	PID:																	
8	PID:																	
9	PID:																	
10	PID:																	

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	11-9-01 4:25	[signature]	11/9/01 4:25 pm	[signature]	11-12-01 730		

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1000 B[illegible] Park[illegible]
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

[illegible]40 [illegible] Ryan R[illegible]
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Env.
Address: 720 E. Ryan Rd
Oak Creek, WI 53154
Report to: Tom WASTRand Phone #: ( ) 768 7144 Fax #: ( ) 768 7158

Bill To: Sigma Env.
Address: ← Same
State & Program: WI
Phone #: ( ) Fax #: ( )

TAT: (STD.) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical ☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT:
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515
Sampler: Martin Nessman
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	ANALYSIS TYPE: VOC - 8260	DRO	PAH	SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	MW-1 7-9' PID: 0.1	11/9/01		S	1						1	2	X					
2	MW-1 6-8' PID: 0.9	11/9/01		S	1						1	2	X					
3	MW-6 4-6' PID: 0.5	11/9/01		S	1						3	4	X	X	X			
4	MW-6 [illegible]-8' PID: .9	11/9/01		S	1						3	4	X	X	X			
5	MW-5 4-6' PID: 120	11/6/01		S	1						3	4	X	X	X			
6	MW-5 10-12' PID: 2.2	11/7/01		S	1						3	4	X	X	X			
7	MW-4 0-2' PID: 0.5	11/9/01		S	1						3	4	X	X	X			
8	MW-4 6-8' PID: 1.3	11/9/01		S	1						3	4	X	X	X			
9	MW-3 0-2' PID: 37	11/9/01		S	1						1	2	X					
10	MW-3 6-8' PID: 155	11/9/01		S	1						1	2	X					

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[signature]	11-9-01 4:15P	[signature]	11/9/01 4:25P				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

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LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

Oak Creek, 8040 E. Ryan Road
(414) ... WI 53154
FAX (414) ...

Client: Sigma Env.
Address: 770 E Ryan Rd
Oak Creek
Report to: Tim Westerman
Phone #: (414) 768-7144
Fax #: (414) 768-7158

Bill To: Same
Address:
State & Program: WI
Phone #: ( )
Fax #: ( )

TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT:
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515
Sampler: Martin Nessman
PO/Quote #:

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	VOC 8260 (ANALYSIS TYPE)										CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1 MW-2 6-8' PID: 0.5	11/9/01		S	1						1	2	X												
2 MW-2 12-14' PID: 42	11/9/01		S	1						1	2													
3 PID:																								
4 PID:																								
5 PID:																								
6 PID:																								
7 PID:																								
8 PID:																								
9 PID:																								
10 PID:																								

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	11/9/01 / 4:25	[signature]	11/9/01 / 4:25 pm				

COMMENTS:

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GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

01 February 2002

Jim Westerman
Sigma Environmental Services, Inc.
220 E. Ryan Road
Oak Creek, WI 53154

RE: 6515

Enclosed are the results of analyses for samples received by the laboratory on 01/18/02 09:52. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Stathas
Project Manager

State of Wisconsin Certification Numbers:
Great Lakes Analytical--Oak Creek, WI: 341000330
Great Lakes Analytical--Buffalo Grove, IL: 999917160

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-8 6-8'	W201109-01	Soil	01/17/02 12:00	01/18/02 09:52
MW-7 6-8'	W201109-02	Soil	01/18/02 09:15	01/18/02 09:52
MW-9 6-8'	W201109-03	Soil	01/18/02 11:00	01/18/02 09:52
trip blank	W201109-04	MeOH Blank	01/21/02 00:00	01/18/02 09:52

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 6-8' (W201109-01) Soil	**Sampled: 01/17/02 12:00**	**Received: 01/18/02 09:52**							**QC**
Benzene	ND	25.0	ug/kg dry	50	2010088	01/23/02	01/24/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 6-8' (W201109-01) Soil Sampled: 01/17/02 12:00 Received: 01/18/02 09:52									**QC**
Toluene	ND	25.0	ug/kg dry	50	2010088	01/23/02	01/24/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*105 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*95.0 %*	*80-120*		"	"	"	"	
MW-7 6-8' (W201109-02) Soil Sampled: 01/18/02 09:15 Received: 01/18/02 09:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2010088	01/23/02	01/24/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 6-8' (W201109-02) Soil	**Sampled: 01/18/02 09:15**	**Received: 01/18/02 09:52**							**QC**
trans-1,2-Dichloroethene	ND	25.0	ug/kg dry	50	2010088	01/23/02	01/24/02	EPA 8021B	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*82.8 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*78.4 %*	*80-120*		"	"	"	"	*O4*

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 6-8' (W201109-03) Soil Sampled: 01/18/02 11:00 Received: 01/18/02 09:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2010088	01/23/02	01/24/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 6-8' (W201109-03) Soil Sampled: 01/18/02 11:00 Received: 01/18/02 09:52									**QC**
Toluene	ND	25.0	ug/kg dry	50	2010088	01/23/02	01/24/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*97.1 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*88.3 %*	*80-120*		"	"	"	"	

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 12:57

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (W201109-04) MeOH Blank	**Sampled: 01/18/02 00:00**		**Received: 01/18/02 09:52**						
Benzene	ND	25.0	ug/l	50	2010097	01/25/02	01/24/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 12:57

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip blank (W201109-04) MeOH Blank	**Sampled: 01/18/02 00:00**		**Received: 01/18/02 09:52**						
Toluene	ND	25.0	ug/l	50	2010097	01/25/02	01/24/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*127 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*114 %*	*80-120*		"	"	"	"	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

Percent Solids

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 6-8' (W201109-01) Soil	**Sampled: 01/17/02 12:00**	**Received: 01/18/02 09:52**							
% Solids	**84.0**	0.0100	%	1	2010090	01/23/02	01/23/02	Balance	
MW-7 6-8' (W201109-02) Soil	**Sampled: 01/18/02 09:15**	**Received: 01/18/02 09:52**							
% Solids	**86.9**	0.0100	%	1	2010090	01/23/02	01/23/02	Balance	
MW-9 6-8' (W201109-03) Soil	**Sampled: 01/18/02 11:00**	**Received: 01/18/02 09:52**							
% Solids	**89.3**	0.0100	%	1	2010090	01/23/02	01/23/02	Balance	

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010088 - EPA 5030B [MeOH]										
Blank (2010088-BLK1)			Prepared: 01/23/02 Analyzed: 01/26/02							
Benzene	ND	25.0	ug/kg wet							
Bromobenzene	ND	25.0	"							
Bromodichloromethane	ND	25.0	"							
n-Butylbenzene	ND	25.0	"							
sec-Butylbenzene	ND	25.0	"							
tert-Butylbenzene	ND	25.0	"							
Carbon tetrachloride	ND	25.0	"							
Chlorobenzene	ND	25.0	"							
Chloroethane	ND	25.0	"							
Chloroform	ND	25.0	"							
Chloromethane	ND	25.0	"							
2-Chlorotoluene	ND	25.0	"							
4-Chlorotoluene	ND	25.0	"							
Dibromochloromethane	ND	25.0	"							
1,2-Dibromo-3-chloropropane	ND	25.0	"							
1,2-Dibromoethane	ND	25.0	"							
1,2-Dichlorobenzene	ND	25.0	"							
1,3-Dichlorobenzene	ND	25.0	"							
1,4-Dichlorobenzene	ND	25.0	"							
Dichlorodifluoromethane	ND	25.0	"							
1,1-Dichloroethane	ND	25.0	"							
1,2-Dichloroethane	ND	25.0	"							
1,1-Dichloroethene	ND	25.0	"							
cis-1,2-Dichloroethene	ND	25.0	"							
trans-1,2-Dichloroethene	ND	25.0	"							
1,2-Dichloropropane	ND	25.0	"							
1,3-Dichloropropane	ND	25.0	"							
2,2-Dichloropropane	ND	25.0	"							
Di-isopropyl ether	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
Hexachlorobutadiene	ND	25.0	"							
Isopropylbenzene	ND	25.0	"							
p-Isopropyltoluene	ND	25.0	"							
Methylene chloride	ND	100	"							
Methyl tert-butyl ether	ND	25.0	"							

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010088 - EPA 5030B [MeOH]										
Blank (2010088-BLK1)				Prepared: 01/23/02 Analyzed: 01/26/02						
Naphthalene	ND	25.0	ug/kg wet							
n-Propylbenzene	ND	25.0	"							
1,1,2,2-Tetrachloroethane	ND	25.0	"							
Tetrachloroethene	ND	25.0	"							
Toluene	ND	25.0	"							
1,2,3-Trichlorobenzene	ND	25.0	"							
1,2,4-Trichlorobenzene	ND	25.0	"							
1,1,1-Trichloroethane	ND	25.0	"							
1,1,2-Trichloroethane	ND	25.0	"							
Trichloroethene	ND	25.0	"							
Trichlorofluoromethane	ND	25.0	"							
1,2,4-Trimethylbenzene	ND	25.0	"							
1,3,5-Trimethylbenzene	ND	25.0	"							
Vinyl chloride	ND	25.0	"							
Total Xylenes	ND	25.0	"							
Surrogate: 1-Cl-4-FB (ELCD)	*1020*		"	*1000*		*102*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*937*		"	*1000*		*93.7*	*80-120*			
LCS (2010088-BS1)				Prepared: 01/23/02 Analyzed: 01/30/02						
Benzene	1030	25.0	ug/kg wet	1000		103	80-120			
Bromobenzene	1140	25.0	"	1000		114	80-120			
Bromodichloromethane	1260	25.0	"	1000		126	80-120			
n-Butylbenzene	1090	25.0	"	1000		109	80-120			
sec-Butylbenzene	1080	25.0	"	1000		108	80-120			
tert-Butylbenzene	1110	25.0	"	1000		111	80-120			
Carbon tetrachloride	1140	25.0	"	1000		114	80-120			
Chlorobenzene	931	25.0	"	1000		93.1	80-120			
Chloroethane	1050	25.0	"	1000		105	80-120			
Chloroform	960	25.0	"	1000		96.0	80-120			
Chloromethane	971	25.0	"	1000		97.1	80-120			
2-Chlorotoluene	926	25.0	"	1000		92.6	80-120			
4-Chlorotoluene	1130	25.0	"	1000		113	80-120			
Dibromochloromethane	1050	25.0	"	1000		105	80-120			
1,2-Dibromo-3-chloropropane	1140	25.0	"	1000		114	80-120			
1,2-Dibromoethane	1170	25.0	"	1000		117	80-120			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010088 - EPA 5030B [MeOH]										
LCS (2010088-BS1)				Prepared: 01/23/02 Analyzed: 01/30/02						
1,2-Dichlorobenzene	1130	25.0	ug/kg wet	1000		113	80-120			
1,3-Dichlorobenzene	898	25.0	"	1000		89.8	80-120			
1,4-Dichlorobenzene	1150	25.0	"	1000		115	80-120			
Dichlorodifluoromethane	1280	25.0	"	1000		128	80-120			
1,1-Dichloroethane	1190	25.0	"	1000		119	80-120			
1,2-Dichloroethane	1170	25.0	"	1000		117	80-120			
1,1-Dichloroethene	1060	25.0	"	1000		106	80-120			
cis-1,2-Dichloroethene	1160	25.0	"	1000		116	80-120			
trans-1,2-Dichloroethene	1120	25.0	"	1000		112	80-120			
1,2-Dichloropropane	963	25.0	"	1000		96.3	80-120			
1,3-Dichloropropane	1110	25.0	"	1000		111	80-120			
2,2-Dichloropropane	1150	25.0	"	1000		115	80-120			
Di-isopropyl ether	919	25.0	"	1000		91.9	80-120			
Ethylbenzene	996	25.0	"	1000		99.6	80-120			
Hexachlorobutadiene	878	25.0	"	1000		87.8	80-120			
Isopropylbenzene	1140	25.0	"	1000		114	80-120			
p-Isopropyltoluene	1000	25.0	"	1000		100	80-120			
Methylene chloride	1060	100	"	1000		106	80-120			
Methyl tert-butyl ether	1020	25.0	"	1000		102	80-120			
Naphthalene	1180	25.0	"	1000		118	80-120			
n-Propylbenzene	1170	25.0	"	1000		117	80-120			
1,1,2,2-Tetrachloroethane	940	25.0	"	1000		94.0	80-120			
Tetrachloroethene	1070	25.0	"	1000		107	80-120			
Toluene	1040	25.0	"	1000		104	80-120			
1,2,3-Trichlorobenzene	1060	25.0	"	1000		106	80-120			
1,2,4-Trichlorobenzene	1150	25.0	"	1000		115	80-120			
1,1,1-Trichloroethane	1320	25.0	"	1000		132	80-120			
1,1,2-Trichloroethane	1130	25.0	"	1000		113	80-120			
Trichloroethene	1000	25.0	"	1000		100	80-120			
Trichlorofluoromethane	988	25.0	"	1000		98.8	80-120			
1,2,4-Trimethylbenzene	1120	25.0	"	1000		112	80-120			
1,3,5-Trimethylbenzene	1050	25.0	"	1000		105	80-120			
Vinyl chloride	833	25.0	"	1000		83.3	80-120			
Total Xylenes	3150	25.0	"	3000		105	80-120			
Surrogate: 1-Cl-4-FB (ELCD)	*763*		"	*1000*		*76.3*	*80-120*			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010088 - EPA 5030B [MeOH]										
LCS (2010088-BS1)				Prepared: 01/23/02 Analyzed: 01/30/02						
Surrogate: 1-Cl-4-FB (PID)	*857*		"	*1000*		*85.7*	*80-120*			
LCS Dup (2010088-BSD1)				Prepared: 01/23/02 Analyzed: 01/30/02						
Benzene	862	25.0	ug/kg wet	1000		86.2	80-120	17.8	20	
Bromobenzene	892	25.0	"	1000		89.2	80-120	24.4	20	
Bromodichloromethane	1110	25.0	"	1000		111	80-120	12.7	20	
n-Butylbenzene	900	25.0	"	1000		90.0	80-120	19.1	20	
sec-Butylbenzene	872	25.0	"	1000		87.2	80-120	21.3	20	
tert-Butylbenzene	877	25.0	"	1000		87.7	80-120	23.5	20	
Carbon tetrachloride	893	25.0	"	1000		89.3	80-120	24.3	20	
Chlorobenzene	853	25.0	"	1000		85.3	80-120	8.74	20	
Chloroethane	880	25.0	"	1000		88.0	80-120	17.6	20	
Chloroform	829	25.0	"	1000		82.9	80-120	14.6	20	
Chloromethane	802	25.0	"	1000		80.2	80-120	19.1	20	
2-Chlorotoluene	818	25.0	"	1000		81.8	80-120	12.4	20	
4-Chlorotoluene	893	25.0	"	1000		89.3	80-120	23.4	20	
Dibromochloromethane	868	25.0	"	1000		86.8	80-120	19.0	20	
1,2-Dibromo-3-chloropropane	1120	25.0	"	1000		112	80-120	1.77	20	
1,2-Dibromoethane	1000	25.0	"	1000		100	80-120	15.7	20	
1,2-Dichlorobenzene	900	25.0	"	1000		90.0	80-120	22.7	20	
1,3-Dichlorobenzene	943	25.0	"	1000		94.3	80-120	4.89	20	
1,4-Dichlorobenzene	930	25.0	"	1000		93.0	80-120	21.2	20	
Dichlorodifluoromethane	1010	25.0	"	1000		101	80-120	23.6	20	
1,1-Dichloroethane	965	25.0	"	1000		96.5	80-120	20.9	20	
1,2-Dichloroethane	924	25.0	"	1000		92.4	80-120	23.5	20	
1,1-Dichloroethene	964	25.0	"	1000		96.4	80-120	9.49	20	
cis-1,2-Dichloroethene	979	25.0	"	1000		97.9	80-120	16.9	20	
trans-1,2-Dichloroethene	950	25.0	"	1000		95.0	80-120	16.4	20	
1,2-Dichloropropane	805	25.0	"	1000		80.5	80-120	17.9	20	
1,3-Dichloropropane	909	25.0	"	1000		90.9	80-120	19.9	20	
2,2-Dichloropropane	967	25.0	"	1000		96.7	80-120	17.3	20	
Di-isopropyl ether	812	25.0	"	1000		81.2	80-120	12.4	20	
Ethylbenzene	804	25.0	"	1000		80.4	80-120	21.3	20	
Hexachlorobutadiene	958	25.0	"	1000		95.8	80-120	8.71	20	
Isopropylbenzene	886	25.0	"	1000		88.6	80-120	25.1	20	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2010088 - EPA 5030B [MeOH]										
LCS Dup (2010088-BSD1)				Prepared: 01/23/02 Analyzed: 01/30/02						
p-Isopropyltoluene	832	25.0	ug/kg wet	1000		83.2	80-120	18.3	20	
Methylene chloride	814	100	"	1000		81.4	80-120	26.3	20	
Methyl tert-butyl ether	909	25.0	"	1000		90.9	80-120	11.5	20	
Naphthalene	1030	25.0	"	1000		103	80-120	13.6	20	
n-Propylbenzene	942	25.0	"	1000		94.2	80-120	21.6	20	
1,1,2,2-Tetrachloroethane	805	25.0	"	1000		80.5	80-120	15.5	20	
Tetrachloroethene	948	25.0	"	1000		94.8	80-120	12.1	20	
Toluene	892	25.0	"	1000		89.2	80-120	15.3	20	
1,2,3-Trichlorobenzene	860	25.0	"	1000		86.0	80-120	20.8	20	
1,2,4-Trichlorobenzene	900	25.0	"	1000		90.0	80-120	24.4	20	
1,1,1-Trichloroethane	1030	25.0	"	1000		103	80-120	24.7	20	
1,1,2-Trichloroethane	859	25.0	"	1000		85.9	80-120	27.2	20	
Trichloroethene	867	25.0	"	1000		86.7	80-120	14.2	20	
Trichlorofluoromethane	801	25.0	"	1000		80.1	80-120	20.9	20	
1,2,4-Trimethylbenzene	902	25.0	"	1000		90.2	80-120	21.6	20	
1,3,5-Trimethylbenzene	866	25.0	"	1000		86.6	80-120	19.2	20	
Vinyl chloride	801	25.0	"	1000		80.1	80-120	3.92	20	
Total Xylenes	2560	25.0	"	3000		85.3	80-120	20.7	20	
Surrogate: 1-Cl-4-FB (ELCD)	*708*		"	*1000*		*70.8*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*819*		"	*1000*		*81.9*	*80-120*			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/01/02 11:10

Notes and Definitions

O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1180 Bunch Parkway
Burlington Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

1740 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Environmental Services
Address: 220 E Ryan Rd
Oak Creek, WI
Report to: Jim Weckerman
Phone #: ( )
Fax #: ( )

Bill To: same
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: ICE
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515
Sampler: Mary Clifford
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	VOC	Dry Weight	ANALYSIS TYPE	SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	MW-8 6-8 PID: 0.0	1/17/02	12:00	S	X							1	✓	✓				W201109-01
2	MW-7 6-8 PID: 0.0	1/18/02	9:15	S	X							1	✓	✓				W201109-02
3	MW-9 6-8 PID: 0.0	1/18/02	11:00	S	X							1	✓	✓				W201109-03
4	Trip blank PID:												✓					W201109-04
5	PID:																	
6	PID:																	
7	PID:																	
8	PID:																	
9	PID:																	
10	PID:																	

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
Mary Clifford	1/18/02 3:05	[signature]	1/18/02 3:56				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

PAGE 1 OF 1

GREAT LAKES ANALYTICAL

140 East Ryan Road
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26 July 2002

Jim Westerman
Sigma Environmental Services, Inc.
220 E. Ryan Road
Oak Creek, WI 53154
RE: 6515

Enclosed are the results of analyses for samples received by the laboratory on 07/19/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Great Lakes Analytical

Andrea Stathas
Project Manager

State of Wisconsin Certification Numbers:
Great Lakes Analytical--Oak Creek, WI: 341000330
Great Lakes Analytical--Buffalo Grove, IL: 999917160

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-10 3-5'	W207209-01	Soil	07/19/02 09:20	07/19/02 14:52
MW-10 7-9'	W207209-02	Soil	07/19/02 09:50	07/19/02 14:52
HA-5 2-4'	W207209-03	Soil	07/19/02 10:00	07/19/02 14:52
HA-5 6-7'	W207209-04	Soil	07/19/02 10:15	07/19/02 14:52
HA-6 2-4'	W207209-05	Soil	07/19/02 10:30	07/19/02 14:52
HA-6 6-7'	W207209-06	Soil	07/19/02 10:45	07/19/02 14:52
MeOH BLANK	W207209-07	MeOH Blank	07/19/02 11:10	07/19/02 14:52

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 3-5' (W207209-01) Soil	**Sampled: 07/19/02 09:20**	**Received: 07/19/02 14:52**							**QC**
Benzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**139**	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 3-5' (W207209-01) Soil Sampled: 07/19/02 09:20 Received: 07/19/02 14:52									**QC**
1,2,4-Trichlorobenzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*76.6 %*		*80-120*		"	"	"	L
Surrogate: 1-Cl-4-FB (PID)		*68.8 %*		*80-120*		"	"	"	L
MW-10 7-9' (W207209-02) Soil Sampled: 07/19/02 09:50 Received: 07/19/02 14:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 7-9' (W207209-02) Soil Sampled: 07/19/02 09:50 Received: 07/19/02 14:52									**QC**
Di-isopropyl ether	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**1690**	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*72.5 %*	*80-120*		"	"	"	"	L
Surrogate: 1-Cl-4-FB (PID)		*70.9 %*	*80-120*		"	"	"	"	L

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-5 2-4' (W207209-03) Soil Sampled: 07/19/02 10:00 Received: 07/19/02 14:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**34700**	500	"	1000	"	"	07/25/02	"	
Toluene	ND	25.0	"	50	"	"	07/23/02	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-5 2-4' (W207209-03) Soil Sampled: 07/19/02 10:00 Received: 07/19/02 14:52									**QC**
1,2,4-Trichlorobenzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*47.5 %*		*80-120*		"	"	"	L
Surrogate: 1-Cl-4-FB (PID)		*65.0 %*		*80-120*		"	"	"	L
HA-5 6-7' (W207209-04) Soil Sampled: 07/19/02 10:15 Received: 07/19/02 14:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-5 6-7' (W207209-04) Soil Sampled: 07/19/02 10:15 Received: 07/19/02 14:52									**QC**
Di-isopropyl ether	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**19100**	500	"	1000	"	"	07/25/02	"	
Toluene	ND	25.0	"	50	"	"	07/23/02	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*51.4 %*		*80-120*		"	"	"	L
Surrogate: 1-Cl-4-FB (PID)		*61.7 %*		*80-120*		"	"	"	L

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 2-4' (W207209-05) Soil Sampled: 07/19/02 10:30 Received: 07/19/02 14:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**10600**	250	"	500	"	"	07/25/02	"	
Toluene	ND	25.0	"	50	"	"	07/23/02	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
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(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 2-4' (W207209-05) Soil Sampled: 07/19/02 10:30 Received: 07/19/02 14:52									**QC**
1,2,4-Trichlorobenzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*79.5 %*		*80-120*		"	"	"	L
Surrogate: 1-Cl-4-FB (PID)		*67.5 %*		*80-120*		"	"	"	L
HA-6 6-7' (W207209-06) Soil Sampled: 07/19/02 10:45 Received: 07/19/02 14:52									**QC**
Benzene	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
HA-6 6-7' (W207209-06) Soil Sampled: 07/19/02 10:45 Received: 07/19/02 14:52									**QC**
Di-isopropyl ether	ND	25.0	ug/kg dry	50	2070134	07/23/02	07/23/02	EPA 8021B	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	25.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	**11900**	250	"	500	"	"	07/25/02	"	
Toluene	ND	25.0	"	50	"	"	07/23/02	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*55.2 %*	*80-120*		"	"	"	"	L
Surrogate: 1-Cl-4-FB (PID)		*65.0 %*	*80-120*		"	"	"	"	L

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MeOH BLANK (W207209-07) MeOH Blank	**Sampled: 07/19/02 11:10**		**Received: 07/19/02 14:52**						
Benzene	ND	25.0	ug/l	50	2070135	07/23/02	07/23/02	EPA 8021B	
Bromobenzene	ND	25.0	"	"	"	"	"	"	
Bromodichloromethane	ND	25.0	"	"	"	"	"	"	
n-Butylbenzene	ND	25.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	25.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	25.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	25.0	"	"	"	"	"	"	
Chlorobenzene	ND	25.0	"	"	"	"	"	"	
Chloroethane	ND	25.0	"	"	"	"	"	"	
Chloroform	ND	25.0	"	"	"	"	"	"	
Chloromethane	ND	25.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
4-Chlorotoluene	ND	25.0	"	"	"	"	"	"	
Dibromochloromethane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	25.0	"	"	"	"	"	"	
1,2-Dibromoethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	25.0	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	25.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	25.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	25.0	"	"	"	"	"	"	
1,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
1,3-Dichloropropane	ND	25.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	25.0	"	"	"	"	"	"	
Di-isopropyl ether	ND	25.0	"	"	"	"	"	"	
Ethylbenzene	ND	25.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	25.0	"	"	"	"	"	"	
Isopropylbenzene	ND	25.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	25.0	"	"	"	"	"	"	
Methylene chloride	ND	100	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	10.0	"	"	"	"	"	"	
Naphthalene	ND	25.0	"	"	"	"	"	"	
n-Propylbenzene	ND	25.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	25.0	"	"	"	"	"	"	
Tetrachloroethene	ND	25.0	"	"	"	"	"	"	
Toluene	ND	25.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	25.0	"	"	"	"	"	"	

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GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MeOH BLANK (W207209-07) MeOH Blank	**Sampled: 07/19/02 11:10 Received: 07/19/02 14:52**								
1,2,4-Trichlorobenzene	ND	25.0	ug/l	50	2070135	07/23/02	07/23/02	EPA 8021B	
1,1,1-Trichloroethane	ND	25.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	25.0	"	"	"	"	"	"	
Trichloroethene	ND	25.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	25.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	25.0	"	"	"	"	"	"	
Vinyl chloride	ND	25.0	"	"	"	"	"	"	
Total Xylenes	ND	25.0	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*84.5 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*73.5 %*		*80-120*	"	"	"	"	L

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

Percent Solids

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 3-5' (W207209-01) Soil Sampled: 07/19/02 09:20 Received: 07/19/02 14:52									
% Solids	**80.5**	0.0100	%	1	2070120	07/19/02	07/22/02	5035 7.5	
MW-10 7-9' (W207209-02) Soil Sampled: 07/19/02 09:50 Received: 07/19/02 14:52									
% Solids	**88.9**	0.0100	%	1	2070120	07/19/02	07/22/02	5035 7.5	
HA-5 2-4' (W207209-03) Soil Sampled: 07/19/02 10:00 Received: 07/19/02 14:52									
% Solids	**85.7**	0.0100	%	1	2070120	07/19/02	07/22/02	5035 7.5	
HA-5 6-7' (W207209-04) Soil Sampled: 07/19/02 10:15 Received: 07/19/02 14:52									
% Solids	**78.8**	0.0100	%	1	2070120	07/19/02	07/22/02	5035 7.5	
HA-6 2-4' (W207209-05) Soil Sampled: 07/19/02 10:30 Received: 07/19/02 14:52									
% Solids	**79.3**	0.0100	%	1	2070120	07/19/02	07/22/02	5035 7.5	
HA-6 6-7' (W207209-06) Soil Sampled: 07/19/02 10:45 Received: 07/19/02 14:52									
% Solids	**81.3**	0.0100	%	1	2070120	07/19/02	07/22/02	5035 7.5	

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070134 - EPA 5030B [MeOH]										
Blank (2070134-BLK1)				Prepared & Analyzed: 07/23/02						
Benzene	ND	25.0	ug/kg wet							
Bromobenzene	ND	25.0	"							
Bromodichloromethane	ND	25.0	"							
n-Butylbenzene	ND	25.0	"							
sec-Butylbenzene	ND	25.0	"							
tert-Butylbenzene	ND	25.0	"							
Carbon tetrachloride	ND	25.0	"							
Chlorobenzene	ND	25.0	"							
Chloroethane	ND	25.0	"							
Chloroform	ND	25.0	"							
Chloromethane	ND	25.0	"							
2-Chlorotoluene	ND	25.0	"							
4-Chlorotoluene	ND	25.0	"							
Dibromochloromethane	ND	25.0	"							
1,2-Dibromo-3-chloropropane	ND	25.0	"							
1,2-Dibromoethane	ND	25.0	"							
1,2-Dichlorobenzene	ND	25.0	"							
1,3-Dichlorobenzene	ND	25.0	"							
1,4-Dichlorobenzene	ND	25.0	"							
Dichlorodifluoromethane	ND	25.0	"							
1,1-Dichloroethane	ND	25.0	"							
1,2-Dichloroethane	ND	25.0	"							
1,1-Dichloroethene	ND	25.0	"							
cis-1,2-Dichloroethene	ND	25.0	"							
trans-1,2-Dichloroethene	ND	25.0	"							
1,2-Dichloropropane	ND	25.0	"							
1,3-Dichloropropane	ND	25.0	"							
2,2-Dichloropropane	ND	25.0	"							
Di-isopropyl ether	ND	25.0	"							
Ethylbenzene	ND	25.0	"							
Hexachlorobutadiene	ND	25.0	"							
Isopropylbenzene	ND	25.0	"							
p-Isopropyltoluene	ND	25.0	"							
Methylene chloride	ND	100	"							

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WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070134 - EPA 5030B [MeOH]										
Blank (2070134-BLK1)				Prepared & Analyzed: 07/23/02						
Methyl tert-butyl ether	ND	25.0	ug/kg wet							
Naphthalene	ND	25.0	"							
n-Propylbenzene	ND	25.0	"							
1,1,2,2-Tetrachloroethane	ND	25.0	"							
Tetrachloroethene	ND	25.0	"							
Toluene	ND	25.0	"							
1,2,3-Trichlorobenzene	ND	25.0	"							
1,2,4-Trichlorobenzene	ND	25.0	"							
1,1,1-Trichloroethane	ND	25.0	"							
1,1,2-Trichloroethane	ND	25.0	"							
Trichloroethene	ND	25.0	"							
Trichlorofluoromethane	ND	25.0	"							
1,2,4-Trimethylbenzene	ND	25.0	"							
1,3,5-Trimethylbenzene	ND	25.0	"							
Vinyl chloride	ND	25.0	"							
Total Xylenes	ND	25.0	"							
Surrogate: 1-Cl-4-FB (ELCD)	*880*		"	*1000*		*88.0*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*725*		"	*1000*		*72.5*	*80-120*			L
LCS (2070134-BS1)				Prepared & Analyzed: 07/23/02						
Benzene	986	25.0	ug/kg wet	1000		98.6	80-120			
Bromobenzene	939	25.0	"	1000		93.9	80-120			
Bromodichloromethane	842	25.0	"	1000		84.2	80-120			
n-Butylbenzene	926	25.0	"	1000		92.6	80-120			
sec-Butylbenzene	1030	25.0	"	1000		103	80-120			
tert-Butylbenzene	899	25.0	"	1000		89.9	80-120			
Carbon tetrachloride	891	25.0	"	1000		89.1	80-120			
Chlorobenzene	961	25.0	"	1000		96.1	80-120			
Chloroethane	801	25.0	"	1000		80.1	80-120			
Chloroform	859	25.0	"	1000		85.9	80-120			
Chloromethane	794	25.0	"	1000		79.4	80-120			L
2-Chlorotoluene	973	25.0	"	1000		97.3	80-120			
4-Chlorotoluene	933	25.0	"	1000		93.3	80-120			
Dibromochloromethane	935	25.0	"	1000		93.5	80-120			

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070134 - EPA 5030B [MeOH]										
LCS (2070134-BS1)				Prepared & Analyzed: 07/23/02						
1,2-Dibromo-3-chloropropane	809	25.0	ug/kg wet	1000		80.9	80-120			
1,2-Dibromoethane	914	25.0	"	1000		91.4	80-120			
1,2-Dichlorobenzene	931	25.0	"	1000		93.1	80-120			
1,3-Dichlorobenzene	991	25.0	"	1000		99.1	80-120			
1,4-Dichlorobenzene	959	25.0	"	1000		95.9	80-120			
Dichlorodifluoromethane	409	25.0	"	1000		40.9	80-120			L
1,1-Dichloroethane	911	25.0	"	1000		91.1	80-120			
1,2-Dichloroethane	985	25.0	"	1000		98.5	80-120			
1,1-Dichloroethene	883	25.0	"	1000		88.3	80-120			
cis-1,2-Dichloroethene	998	25.0	"	1000		99.8	80-120			
trans-1,2-Dichloroethene	933	25.0	"	1000		93.3	80-120			
1,2-Dichloropropane	1040	25.0	"	1000		104	80-120			
1,3-Dichloropropane	887	25.0	"	1000		88.7	80-120			
2,2-Dichloropropane	946	25.0	"	1000		94.6	80-120			
Di-isopropyl ether	941	25.0	"	1000		94.1	80-120			
Ethylbenzene	916	25.0	"	1000		91.6	80-120			
Hexachlorobutadiene	897	25.0	"	1000		89.7	80-120			
Isopropylbenzene	995	25.0	"	1000		99.5	80-120			
p-Isopropyltoluene	852	25.0	"	1000		85.2	80-120			
Methylene chloride	853	100	"	1000		85.3	80-120			
Methyl tert-butyl ether	896	25.0	"	1000		89.6	80-120			
Naphthalene	942	25.0	"	1000		94.2	80-120			
n-Propylbenzene	994	25.0	"	1000		99.4	80-120			
1,1,2,2-Tetrachloroethane	880	25.0	"	1000		88.0	80-120			
Tetrachloroethene	866	25.0	"	1000		86.6	80-120			
Toluene	967	25.0	"	1000		96.7	80-120			
1,2,3-Trichlorobenzene	875	25.0	"	1000		87.5	80-120			
1,2,4-Trichlorobenzene	1000	25.0	"	1000		100	80-120			
1,1,1-Trichloroethane	928	25.0	"	1000		92.8	80-120			
1,1,2-Trichloroethane	898	25.0	"	1000		89.8	80-120			
Trichloroethene	932	25.0	"	1000		93.2	80-120			
Trichlorofluoromethane	681	25.0	"	1000		68.1	80-120			L
1,2,4-Trimethylbenzene	917	25.0	"	1000		91.7	80-120			
1,3,5-Trimethylbenzene	996	25.0	"	1000		99.6	80-120			

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070134 - EPA 5030B [MeOH]										
LCS (2070134-BS1)				Prepared & Analyzed: 07/23/02						
Vinyl chloride	686	25.0	ug/kg wet	1000		68.6	80-120			L
Total Xylenes	2960	25.0	"	3000		98.7	80-120			
Surrogate: 1-Cl-4-FB (ELCD)	*802*		"	*1000*		*80.2*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*802*		"	*1000*		*80.2*	*80-120*			
LCS Dup (2070134-BSD1)				Prepared & Analyzed: 07/23/02						
Benzene	968	25.0	ug/kg wet	1000		96.8	80-120	1.84	20	
Bromobenzene	967	25.0	"	1000		96.7	80-120	2.94	20	
Bromodichloromethane	931	25.0	"	1000		93.1	80-120	10.0	20	
n-Butylbenzene	946	25.0	"	1000		94.6	80-120	2.14	20	
sec-Butylbenzene	1060	25.0	"	1000		106	80-120	2.87	20	
tert-Butylbenzene	925	25.0	"	1000		92.5	80-120	2.85	20	
Carbon tetrachloride	977	25.0	"	1000		97.7	80-120	9.21	20	
Chlorobenzene	995	25.0	"	1000		99.5	80-120	3.48	20	
Chloroethane	881	25.0	"	1000		88.1	80-120	9.51	20	
Chloroform	930	25.0	"	1000		93.0	80-120	7.94	20	
Chloromethane	752	25.0	"	1000		75.2	80-120	5.43	20	L
2-Chlorotoluene	1000	25.0	"	1000		100	80-120	2.74	20	
4-Chlorotoluene	962	25.0	"	1000		96.2	80-120	3.06	20	
Dibromochloromethane	965	25.0	"	1000		96.5	80-120	3.16	20	
1,2-Dibromo-3-chloropropane	951	25.0	"	1000		95.1	80-120	16.1	20	
1,2-Dibromoethane	971	25.0	"	1000		97.1	80-120	6.05	20	
1,2-Dichlorobenzene	980	25.0	"	1000		98.0	80-120	5.13	20	
1,3-Dichlorobenzene	1030	25.0	"	1000		103	80-120	3.86	20	
1,4-Dichlorobenzene	1000	25.0	"	1000		100	80-120	4.19	20	
Dichlorodifluoromethane	440	25.0	"	1000		44.0	80-120	7.30	20	L
1,1-Dichloroethane	1020	25.0	"	1000		102	80-120	11.3	20	
1,2-Dichloroethane	1070	25.0	"	1000		107	80-120	8.27	20	
1,1-Dichloroethene	879	25.0	"	1000		87.9	80-120	0.454	20	
cis-1,2-Dichloroethene	1010	25.0	"	1000		101	80-120	1.20	20	
trans-1,2-Dichloroethene	936	25.0	"	1000		93.6	80-120	0.321	20	
1,2-Dichloropropane	1110	25.0	"	1000		111	80-120	6.51	20	
1,3-Dichloropropane	917	25.0	"	1000		91.7	80-120	3.33	20	
2,2-Dichloropropane	1060	25.0	"	1000		106	80-120	11.4	20	

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070134 - EPA 5030B [MeOH]										
LCS Dup (2070134-BSD1)				Prepared & Analyzed: 07/23/02						
Di-isopropyl ether	948	25.0	ug/kg wet	1000		94.8	80-120	0.741	20	
Ethylbenzene	943	25.0	"	1000		94.3	80-120	2.90	20	
Hexachlorobutadiene	925	25.0	"	1000		92.5	80-120	3.07	20	
Isopropylbenzene	1010	25.0	"	1000		101	80-120	1.50	20	
p-Isopropyltoluene	879	25.0	"	1000		87.9	80-120	3.12	20	
Methylene chloride	928	100	"	1000		92.8	80-120	8.42	20	
Methyl tert-butyl ether	896	25.0	"	1000		89.6	80-120	0.00	20	
Naphthalene	1070	25.0	"	1000		107	80-120	12.7	20	
n-Propylbenzene	1020	25.0	"	1000		102	80-120	2.58	20	
1,1,2,2-Tetrachloroethane	1030	25.0	"	1000		103	80-120	15.7	20	
Tetrachloroethene	883	25.0	"	1000		88.3	80-120	1.94	20	
Toluene	979	25.0	"	1000		97.9	80-120	1.23	20	
1,2,3-Trichlorobenzene	943	25.0	"	1000		94.3	80-120	7.48	20	
1,2,4-Trichlorobenzene	1040	25.0	"	1000		104	80-120	3.92	20	
1,1,1-Trichloroethane	1020	25.0	"	1000		102	80-120	9.45	20	
1,1,2-Trichloroethane	960	25.0	"	1000		96.0	80-120	6.67	20	
Trichloroethene	910	25.0	"	1000		91.0	80-120	2.39	20	
Trichlorofluoromethane	689	25.0	"	1000		68.9	80-120	1.17	20	L
1,2,4-Trimethylbenzene	944	25.0	"	1000		94.4	80-120	2.90	20	
1,3,5-Trimethylbenzene	1020	25.0	"	1000		102	80-120	2.38	20	
Vinyl chloride	699	25.0	"	1000		69.9	80-120	1.88	20	L
Total Xylenes	3070	25.0	"	3000		102	80-120	3.65	20	
Surrogate: 1-Cl-4-FB (ELCD)	*830*		"	*1000*		*83.0*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*820*		"	*1000*		*82.0*	*80-120*			

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

Percent Solids - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070120 - Percent Solids										
Blank (2070120-BLK1)				Prepared: 07/19/02 Analyzed: 07/22/02						
% Solids	ND	0.0100	%							
Duplicate (2070120-DUP1)		**Source: W207196-01**		Prepared: 07/19/02 Analyzed: 07/22/02						
% Solids	85.0	0.0100	%		85.0			0.00	20	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	07/26/02 13:22

Notes and Definitions

QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
L	This quality control measurement is below the laboratory established limit.
H	This quality control measurement is above the laboratory established limit.

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Environmental
Address: 220 E. Ryan Rd
Oak Creek, WI 53154
Report to: Jim Westerman
E-mail:
Phone #: (414) 768-7144
Fax #: (414) 768-7144

Bill To: Sigma
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: (STD.) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
Received on Ice: YES ☐ NO ☐
Temperature Upon Receipt: on ice
Deliverable Package: ☐ STD ☐ Other
Delivery Method: GLA ☐ Client ☐ Shipped ☐ Courier ☐

Project Name:
Project #/PO#: C0515
Sampler: Marty Nissman / Joe Silvera

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DRY-WEIGHT CORRECT RESULTS	DO NOT DRY-WEIGHT CORRECT RESULTS	VOC (8021)	ANALYSIS TYPE	SAMPLE CONTROL: CRACKED/BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	LABORATORY ID NUMBER
1	MW-10 3-5' PID: 0.0	7/19/02 mw	9:20	S	1						1	2			X				W207209-01
2	MW-10 7-9' PID: 5.1	7/19/02 mbr	9:50	S	1						1	2			X				-02
3	HA-5 2-4' PID: 66	7/19/02	10:00	S	1						1	2			X				-03
4	HA-5 6-7' PID: 168	7/19/02	10:15	S	1						1	2			X				-04
5	HA-6 2-4' PID: 44	7/19/02	10:30	S	1						1	2			X				-05
6	HA-6 6-7' PID: 189	7/19/02	10:45	S	1						1	2			X				-06
7	Methanol Blank PID: —	7/19/02	11:10	—	1							1			X				-07
8	PID:																		-
9	PID:																		
10	PID:																		

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
	7/20 0GP		07/19/02 1014				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

PAGE OF

APPENDIX F

GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

GREAT LAKES ANALYTICAL

140 East Ryan Road
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04 December 2001

Jim Westerman
Sigma Environmental Services, Inc.
220 E. Ryan Road
Oak Creek, WI 53154

RE: 6515

Enclosed are the results of analyses for samples received by the laboratory on 11/28/01 15:44. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Stathas
Project Manager

State of Wisconsin Certification Numbers:
Great Lakes Analytical--Oak Creek, WI: 341000330
Great Lakes Analytical--Buffalo Grove, IL: 999917160

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	W111177-01	Water	11/28/01 10:20	11/28/01 15:44
MW-2	W111177-02	Water	11/28/01 11:40	11/28/01 15:44
MW-3	W111177-03	Water	11/28/01 12:30	11/28/01 15:44
MW-4	W111177-04	Water	11/28/01 12:00	11/28/01 15:44
MW-5	W111177-05	Water	11/28/01 11:15	11/28/01 15:44
MW-6	W111177-06	Water	11/28/01 10:40	11/28/01 15:44
Dup	W111177-07	Water	11/28/01 00:00	11/28/01 15:44
Equip	W111177-08	Water	11/28/01 00:00	11/28/01 15:44
Trip	W111177-09	Water	11/28/01 00:00	11/28/01 15:44

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Diesel Range Organics (DRO) by WDNR DRO
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W111177-04) Water Sampled: 11/28/01 12:00 Received: 11/28/01 15:44									
Diesel Range Organics (DRO)	**0.169**	0.100	mg/l	1	1110085	11/29/01	11/29/01	WDNR DRO	T10,T15,T2,T6,T11
MW-5 (W111177-05) Water Sampled: 11/28/01 11:15 Received: 11/28/01 15:44									
Diesel Range Organics (DRO)	**0.822**	0.100	mg/l	1	1110085	11/29/01	11/30/01	WDNR DRO	T10,T8,T15,T2
MW-6 (W111177-06) Water Sampled: 11/28/01 10:40 Received: 11/28/01 15:44									
Diesel Range Organics (DRO)	**0.130**	0.100	mg/l	1	1110085	11/29/01	11/30/01	WDNR DRO	T10,T6,T2,T15,T11

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W111177-01) Water Sampled: 11/28/01 10:20 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W111177-01) Water Sampled: 11/28/01 10:20 Received: 11/28/01 15:44									
Toluene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*110 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*115 %*	*80-120*		"	"	"	"	
MW-2 (W111177-02) Water Sampled: 11/28/01 11:40 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W111177-02) Water Sampled: 11/28/01 11:40 Received: 11/28/01 15:44									
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**5910**	100	"	200	"	"	11/30/01	"	G12
Toluene	ND	0.500	"	1	"	"	11/29/01	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**1.25**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*152 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*93.5 %*	*80-120*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W111177-03) Water Sampled: 11/28/01 12:30 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**121**	5.00	"	10	"	"	12/03/01	"	G12
trans-1,2-Dichloroethene	**1.95**	0.500	"	1	"	"	11/29/01	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	**3.92**	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**16500**	250	"	500	"	"	12/03/01	"	G12

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Oak Creek, Wisconsin 53154
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W111177-03) Water Sampled: 11/28/01 12:30 Received: 11/28/01 15:44									
Toluene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**35.6**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*170 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*75.8 %*	*80-120*		"	"	"	"	*O4*
MW-4 (W111177-04) Water Sampled: 11/28/01 12:00 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W111177-04) Water Sampled: 11/28/01 12:00 Received: 11/28/01 15:44									
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**3.97**	0.500	"	"	"	"	11/30/01	"	
Toluene	ND	0.500	"	"	"	"	11/29/01	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*154 %*		*80-120*	"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*134 %*		*80-120*	"	"	"	"	*O5*

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W111177-05) Water Sampled: 11/28/01 11:15 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	**3.75**	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W111177-05) Water Sampled: 11/28/01 11:15 Received: 11/28/01 15:44									
Toluene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*116 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*114 %*		*80-120*	"	"	"	"	
MW-6 (W111177-06) Water Sampled: 11/28/01 10:40 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W111177-06) Water Sampled: 11/28/01 10:40 Received: 11/28/01 15:44									
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	1110088	11/29/01	11/29/01	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*178 %*		*80-120*	"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*122 %*		*80-120*	"	"	"	"	*O5*

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup (W111177-07) Water Sampled: 11/28/01 00:00 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/30/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**92.2**	5.00	"	10	"	"	12/03/01	"	G12
trans-1,2-Dichloroethene	**7.25**	0.500	"	1	"	"	11/30/01	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**14200**	250	"	500	"	"	12/03/01	"	G12

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup (W111177-07) Water Sampled: 11/28/01 00:00 Received: 11/28/01 15:44									
Toluene	ND	0.500	ug/l	1	1110088	11/29/01	11/30/01	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**37.9**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*137 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*83.0 %*	*80-120*		"	"	"	"	

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip (W111177-08) Water Sampled: 11/28/01 00:00 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/30/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip (W111177-08) Water Sampled: 11/28/01 00:00 Received: 11/28/01 15:44									
Toluene	ND	0.500	ug/l	1	1110088	11/29/01	11/30/01	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*96.4 %*		*80-120*		"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*117 %*		*80-120*		"	"	"	
Trip (W111177-09) Water Sampled: 11/28/01 00:00 Received: 11/28/01 15:44									
Benzene	ND	0.500	ug/l	1	1110088	11/29/01	11/30/01	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Trip (W111177-09) Water Sampled: 11/28/01 00:00 Received: 11/28/01 15:44									
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	1110088	11/29/01	11/30/01	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*96.4 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*110 %*		*80-120*	"	"	"	"	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

General Chemistry

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W111177-02) Water	**Sampled: 11/28/01 11:40**	**Received: 11/28/01 15:44**							
Nitrate as N	**2.14**	0.0500	mg/l	1	1110485	11/29/01	11/29/01	EPA 353.2	
Sulfate as SO4	**25.8**	10.0	"	"	1110494	11/29/01	11/30/01	EPA 375.4	
MW-3 (W111177-03) Water	**Sampled: 11/28/01 12:30**	**Received: 11/28/01 15:44**							
Nitrate as N	**3.54**	0.250	mg/l	5	1110485	11/29/01	11/29/01	EPA 353.2	G12
Sulfate as SO4	**28.3**	10.0	"	1	1110494	11/29/01	11/30/01	EPA 375.4	
MW-4 (W111177-04) Water	**Sampled: 11/28/01 12:00**	**Received: 11/28/01 15:44**							
Nitrate as N	**0.101**	0.0500	mg/l	1	1110485	11/29/01	11/29/01	EPA 353.2	
Sulfate as SO4	**174**	20.0	"	2	1110494	11/29/01	11/30/01	EPA 375.4	G12
MW-5 (W111177-05) Water	**Sampled: 11/28/01 11:15**	**Received: 11/28/01 15:44**							
Nitrate as N	ND	0.0500	mg/l	1	1110485	11/29/01	11/29/01	EPA 353.2	
Sulfate as SO4	**27.2**	10.0	"	"	1110494	11/29/01	11/30/01	EPA 375.4	
MW-6 (W111177-06) Water	**Sampled: 11/28/01 10:40**	**Received: 11/28/01 15:44**							
Nitrate as N	**0.378**	0.0500	mg/l	1	1110485	11/29/01	11/29/01	EPA 353.2	
Sulfate as SO4	**135**	10.0	"	"	1110494	11/29/01	11/30/01	EPA 375.4	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Dissolved Metals by EPA 6000/7000 Series Methods

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W111177-02) Water	**Sampled: 11/28/01 11:40**	**Received: 11/28/01 15:44**							
Manganese	**0.304**	0.0500	mg/l	1	1110499	11/30/01	11/30/01	EPA 6010B	
MW-3 (W111177-03) Water	**Sampled: 11/28/01 12:30**	**Received: 11/28/01 15:44**							
Manganese	**0.120**	0.0500	mg/l	1	1110499	11/30/01	11/30/01	EPA 6010B	
MW-4 (W111177-04) Water	**Sampled: 11/28/01 12:00**	**Received: 11/28/01 15:44**							
Manganese	**0.282**	0.0500	mg/l	1	1110499	11/30/01	11/30/01	EPA 6010B	
MW-5 (W111177-05) Water	**Sampled: 11/28/01 11:15**	**Received: 11/28/01 15:44**							
Manganese	**0.565**	0.0500	mg/l	1	1110499	11/30/01	11/30/01	EPA 6010B	
MW-6 (W111177-06) Water	**Sampled: 11/28/01 10:40**	**Received: 11/28/01 15:44**							
Manganese	**0.230**	0.0500	mg/l	1	1110499	11/30/01	11/30/01	EPA 6010B	

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Polynuclear Aromatic Compounds by EPA Method 8310

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W111177-04) Water Sampled: 11/28/01 12:00 Received: 11/28/01 15:44									
Acenaphthene	ND	5.00	ug/l	1	1110495	11/29/01	11/30/01	EPA 8310	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benz (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0200	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	"	"	"	
1-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Surrogate: Carbazole		*86.1 %*	*24.5-122*		"	"	"	"	
MW-5 (W111177-05) Water Sampled: 11/28/01 11:15 Received: 11/28/01 15:44									
Acenaphthene	ND	5.00	ug/l	1	1110495	11/29/01	11/30/01	EPA 8310	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benz (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0200	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	"	"	"	
1-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Polynuclear Aromatic Compounds by EPA Method 8310

Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W111177-05) Water	**Sampled: 11/28/01 11:15**	**Received: 11/28/01 15:44**							
Surrogate: Carbazole		*415 %*	*24.5-122*		*1110495*	*11/29/01*	*11/30/01*	*EPA 8310*	*O5*
MW-6 (W111177-06) Water	**Sampled: 11/28/01 10:40**	**Received: 11/28/01 15:44**							
Acenaphthene	ND	5.00	ug/l	1	1110495	11/29/01	11/30/01	EPA 8310	
Acenaphthylene	ND	5.00	"	"	"	"	"	"	
Anthracene	ND	5.00	"	"	"	"	"	"	
Benz (a) anthracene	ND	0.100	"	"	"	"	"	"	
Benzo (a) pyrene	ND	0.0200	"	"	"	"	"	"	
Benzo (b) fluoranthene	ND	0.0200	"	"	"	"	"	"	
Benzo (ghi) perylene	ND	5.00	"	"	"	"	"	"	
Benzo (k) fluoranthene	ND	0.100	"	"	"	"	"	"	
Chrysene	ND	0.0200	"	"	"	"	"	"	
Dibenz (a,h) anthracene	ND	0.100	"	"	"	"	"	"	
Fluoranthene	ND	5.00	"	"	"	"	"	"	
Fluorene	ND	5.00	"	"	"	"	"	"	
Indeno (1,2,3-cd) pyrene	ND	0.200	"	"	"	"	"	"	
1-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
2-Methylnaphthalene	ND	5.00	"	"	"	"	"	"	
Naphthalene	ND	5.00	"	"	"	"	"	"	
Phenanthrene	ND	5.00	"	"	"	"	"	"	
Pyrene	ND	5.00	"	"	"	"	"	"	
Surrogate: Carbazole		*86.1 %*	*24.5-122*		"	"	"	"	

Andrea Stathas, Project Manager

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Diesel Range Organics (DRO) by WDNR DRO - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110085 - EPA 3510C										
Blank (1110085-BLK1)				Prepared & Analyzed: 11/29/01						
Diesel Range Organics (DRO)	ND	0.100	mg/l							
LCS (1110085-BS1)				Prepared & Analyzed: 11/29/01						
Diesel Range Organics (DRO)	0.800	0.100	mg/l	1.00		80.0	75-115			
LCS Dup (1110085-BSD1)				Prepared & Analyzed: 11/29/01						
Diesel Range Organics (DRO)	0.870	0.100	mg/l	1.00		87.0	75-115	8.38	20	

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Blank (1110088-BLK1)				Prepared & Analyzed: 11/29/01						
Benzene	ND	0.500	ug/l							
Bromobenzene	ND	0.500	"							
Bromodichloromethane	ND	0.500	"							
n-Butylbenzene	ND	0.500	"							
sec-Butylbenzene	ND	0.500	"							
tert-Butylbenzene	ND	0.500	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	0.500	"							
Chloroform	ND	0.140	"							
Chloromethane	ND	0.600	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.390	"							
1,2-Dibromoethane	ND	0.380	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
1,3-Dichloropropane	ND	0.500	"							
2,2-Dichloropropane	ND	0.500	"							
Di-isopropyl ether	ND	5.00	"							
Ethylbenzene	ND	0.500	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.500	"							
Methylene chloride	ND	0.530	"							
Methyl tert-butyl ether	ND	0.500	"							

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Blank (1110088-BLK1)				Prepared & Analyzed: 11/29/01						
Naphthalene	ND	2.00	ug/l							
n-Propylbenzene	ND	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.350	"							
Tetrachloroethene	ND	0.500	"							
Toluene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	2.00	"							
1,2,4-Trichlorobenzene	ND	2.00	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.160	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	0.170	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Cl-4-FB (ELCD)	*10.6*		"	*10.0*		*106*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*11.0*		"	*10.0*		*110*	*80-120*			
LCS (1110088-BS1)				Prepared & Analyzed: 11/29/01						
Benzene	10.6	0.500	ug/l	10.0		106	85-115			
Bromobenzene	11.4	0.500	"	10.0		114	85-115			
Bromodichloromethane	10.2	0.500	"	10.0		102	85-115			
n-Butylbenzene	10.8	0.500	"	10.0		108	85-115			
sec-Butylbenzene	11.1	0.500	"	10.0		111	85-115			
tert-Butylbenzene	11.3	0.500	"	10.0		113	85-115			
Carbon tetrachloride	11.3	0.500	"	10.0		113	85-115			
Chlorobenzene	9.47	0.500	"	10.0		94.7	85-115			
Chloroethane	9.12	0.500	"	10.0		91.2	85-115			
Chloroform	10.6	0.140	"	10.0		106	85-115			
Chloromethane	8.86	0.600	"	10.0		88.6	85-115			
2-Chlorotoluene	10.1	0.500	"	10.0		101	85-115			
4-Chlorotoluene	10.6	0.500	"	10.0		106	85-115			
Dibromochloromethane	9.80	0.500	"	10.0		98.0	85-115			
1,2-Dibromo-3-chloropropane	11.0	0.390	"	10.0		110	85-115			
1,2-Dibromoethane	9.68	0.380	"	10.0		96.8	85-115			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
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Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
LCS (1110088-BS1)				Prepared & Analyzed: 11/29/01						
1,2-Dichlorobenzene	11.5	0.500	ug/l	10.0		115	85-115			
1,3-Dichlorobenzene	10.7	0.500	"	10.0		107	85-115			
1,4-Dichlorobenzene	10.8	0.500	"	10.0		108	85-115			
Dichlorodifluoromethane	8.65	0.500	"	10.0		86.5	85-115			
1,1-Dichloroethane	11.3	0.500	"	10.0		113	85-115			
1,2-Dichloroethane	11.4	0.500	"	10.0		114	85-115			
1,1-Dichloroethene	10.2	0.500	"	10.0		102	85-115			
cis-1,2-Dichloroethene	10.2	0.500	"	10.0		102	85-115			
trans-1,2-Dichloroethene	10.6	0.500	"	10.0		106	85-115			
1,2-Dichloropropane	11.1	0.500	"	10.0		111	85-115			
1,3-Dichloropropane	10.4	0.500	"	10.0		104	85-115			
2,2-Dichloropropane	11.5	0.500	"	10.0		115	85-115			
Di-isopropyl ether	10.7	5.00	"	10.0		107	85-115			
Ethylbenzene	10.1	0.500	"	10.0		101	85-115			
Hexachlorobutadiene	10.6	5.00	"	10.0		106	85-115			
Isopropylbenzene	11.2	0.500	"	10.0		112	85-115			
p-Isopropyltoluene	11.2	0.500	"	10.0		112	85-115			
Methylene chloride	10.5	0.530	"	10.0		105	85-115			
Methyl tert-butyl ether	10.6	0.500	"	10.0		106	85-115			
Naphthalene	11.3	2.00	"	10.0		113	85-115			
n-Propylbenzene	11.1	0.500	"	10.0		111	85-115			
1,1,2,2-Tetrachloroethane	10.9	0.350	"	10.0		109	85-115			
Tetrachloroethene	10.8	0.500	"	10.0		108	85-115			
Toluene	10.7	0.500	"	10.0		107	85-115			
1,2,3-Trichlorobenzene	11.4	2.00	"	10.0		114	85-115			
1,2,4-Trichlorobenzene	11.1	2.00	"	10.0		111	85-115			
1,1,1-Trichloroethane	10.6	0.500	"	10.0		106	85-115			
1,1,2-Trichloroethane	10.1	0.160	"	10.0		101	85-115			
Trichloroethene	10.5	0.500	"	10.0		105	85-115			
Trichlorofluoromethane	8.87	0.500	"	10.0		88.7	85-115			
1,2,4-Trimethylbenzene	11.4	1.00	"	10.0		114	85-115			
1,3,5-Trimethylbenzene	11.2	1.00	"	10.0		112	85-115			
Vinyl chloride	10.9	0.170	"	10.0		109	85-115			
Total Xylenes	31.8	0.500	"	30.0		106	85-115			
Surrogate: 1-Cl-4-FB (ELCD)	*9.03*		"	*10.0*		*90.3*	*80-120*			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
LCS (1110088-BS1)				Prepared & Analyzed: 11/29/01						
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			
Matrix Spike (1110088-MS1)		**Source: W111177-01**		Prepared & Analyzed: 11/29/01						
Benzene	9.68	0.500	ug/l	10.0	ND	96.8	75-125			
Bromobenzene	10.0	0.500	"	10.0	ND	100	75-125			
Bromodichloromethane	12.2	0.500	"	10.0	ND	122	75-125			
n-Butylbenzene	10.4	0.500	"	10.0	ND	104	75-125			
sec-Butylbenzene	9.98	0.500	"	10.0	ND	99.8	75-125			
tert-Butylbenzene	9.98	0.500	"	10.0	ND	99.8	75-125			
Carbon tetrachloride	10.8	0.500	"	10.0	ND	108	75-125			
Chlorobenzene	8.51	0.500	"	10.0	ND	85.1	75-125			
Chloroethane	8.79	0.500	"	10.0	ND	87.9	75-125			
Chloroform	9.06	0.140	"	10.0	ND	90.6	75-125			
Chloromethane	8.10	0.600	"	10.0	ND	81.0	75-125			
2-Chlorotoluene	9.00	0.500	"	10.0	ND	90.0	75-125			
4-Chlorotoluene	10.3	0.500	"	10.0	ND	103	75-125			
Dibromochloromethane	10.8	0.500	"	10.0	ND	108	75-125			
1,2-Dibromo-3-chloropropane	10.5	0.390	"	10.0	ND	105	75-125			
1,2-Dibromoethane	12.0	0.380	"	10.0	ND	120	75-125			
1,2-Dichlorobenzene	10.2	0.500	"	10.0	ND	102	75-125			
1,3-Dichlorobenzene	8.28	0.500	"	10.0	ND	82.8	75-125			
1,4-Dichlorobenzene	10.3	0.500	"	10.0	ND	103	75-125			
Dichlorodifluoromethane	7.52	0.500	"	10.0	ND	75.2	75-125			
1,1-Dichloroethane	11.0	0.500	"	10.0	ND	110	75-125			
1,2-Dichloroethane	10.5	0.500	"	10.0	ND	105	75-125			
1,1-Dichloroethene	9.21	0.500	"	10.0	ND	92.1	75-125			
cis-1,2-Dichloroethene	9.28	0.500	"	10.0	ND	92.8	75-125			
trans-1,2-Dichloroethene	9.39	0.500	"	10.0	ND	93.9	75-125			
1,2-Dichloropropane	9.97	0.500	"	10.0	ND	99.7	75-125			
1,3-Dichloropropane	11.1	0.500	"	10.0	ND	111	75-125			
2,2-Dichloropropane	11.5	0.500	"	10.0	ND	115	75-125			
Di-isopropyl ether	9.74	5.00	"	10.0	ND	97.4	75-125			
Ethylbenzene	9.03	0.500	"	10.0	ND	90.3	75-125			
Hexachlorobutadiene	9.70	5.00	"	10.0	ND	97.0	75-125			
Isopropylbenzene	9.95	0.500	"	10.0	ND	99.5	75-125			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Matrix Spike (1110088-MS1)		**Source: W111177-01**		Prepared & Analyzed: 11/29/01						
p-Isopropyltoluene	9.31	0.500	ug/l	10.0	ND	93.1	75-125			
Methylene chloride	10.2	0.530	"	10.0	ND	102	75-125			
Methyl tert-butyl ether	9.26	0.500	"	10.0	ND	92.6	75-125			
Naphthalene	10.4	2.00	"	10.0	ND	104	75-125			
n-Propylbenzene	10.5	0.500	"	10.0	ND	105	75-125			
1,1,2,2-Tetrachloroethane	10.4	0.350	"	10.0	ND	104	75-125			
Tetrachloroethene	9.79	0.500	"	10.0	ND	97.9	75-125			
Toluene	9.53	0.500	"	10.0	ND	95.3	75-125			
1,2,3-Trichlorobenzene	9.70	2.00	"	10.0	ND	97.0	75-125			
1,2,4-Trichlorobenzene	9.99	2.00	"	10.0	ND	99.9	75-125			
1,1,1-Trichloroethane	11.4	0.500	"	10.0	ND	114	75-125			
1,1,2-Trichloroethane	10.8	0.160	"	10.0	ND	108	75-125			
Trichloroethene	9.34	0.500	"	10.0	ND	93.4	75-125			
Trichlorofluoromethane	9.48	0.500	"	10.0	ND	94.8	75-125			
1,2,4-Trimethylbenzene	9.90	1.00	"	10.0	ND	99.0	75-125			
1,3,5-Trimethylbenzene	9.60	1.00	"	10.0	ND	96.0	75-125			
Vinyl chloride	9.30	0.170	"	10.0	ND	93.0	75-125			
Total Xylenes	28.7	0.500	"	30.0	ND	95.7	75-125			
Surrogate: 1-Cl-4-FB (ELCD)	*9.38*		"	*10.0*		*93.8*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			
Matrix Spike Dup (1110088-MSD1)		**Source: W111177-01**		Prepared & Analyzed: 11/29/01						
Benzene	10.3	0.500	ug/l	10.0	ND	103	75-125	6.21	20	
Bromobenzene	10.8	0.500	"	10.0	ND	108	75-125	7.69	20	
Bromodichloromethane	11.7	0.500	"	10.0	ND	117	75-125	4.18	20	
n-Butylbenzene	11.3	0.500	"	10.0	ND	113	75-125	8.29	20	
sec-Butylbenzene	10.7	0.500	"	10.0	ND	107	75-125	6.96	20	
tert-Butylbenzene	10.8	0.500	"	10.0	ND	108	75-125	7.89	20	
Carbon tetrachloride	10.5	0.500	"	10.0	ND	105	75-125	2.82	20	
Chlorobenzene	9.12	0.500	"	10.0	ND	91.2	75-125	6.92	20	
Chloroethane	9.45	0.500	"	10.0	ND	94.5	75-125	7.24	20	
Chloroform	9.09	0.140	"	10.0	ND	90.9	75-125	0.331	20	
Chloromethane	8.69	0.600	"	10.0	ND	86.9	75-125	7.03	20	
2-Chlorotoluene	9.72	0.500	"	10.0	ND	97.2	75-125	7.69	20	
4-Chlorotoluene	11.2	0.500	"	10.0	ND	112	75-125	8.37	20	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Matrix Spike Dup (1110088-MSD1)	**Source: W111177-01**			Prepared & Analyzed: 11/29/01						
Dibromochloromethane	11.3	0.500	ug/l	10.0	ND	113	75-125	4.52	20	
1,2-Dibromo-3-chloropropane	11.2	0.390	"	10.0	ND	112	75-125	6.45	20	
1,2-Dibromoethane	12.3	0.380	"	10.0	ND	123	75-125	2.47	20	
1,2-Dichlorobenzene	11.2	0.500	"	10.0	ND	112	75-125	9.35	20	
1,3-Dichlorobenzene	8.90	0.500	"	10.0	ND	89.0	75-125	7.22	20	
1,4-Dichlorobenzene	11.2	0.500	"	10.0	ND	112	75-125	8.37	20	
Dichlorodifluoromethane	8.24	0.500	"	10.0	ND	82.4	75-125	9.14	20	
1,1-Dichloroethane	10.7	0.500	"	10.0	ND	107	75-125	2.76	20	
1,2-Dichloroethane	11.2	0.500	"	10.0	ND	112	75-125	6.45	20	
1,1-Dichloroethene	9.82	0.500	"	10.0	ND	98.2	75-125	6.41	20	
cis-1,2-Dichloroethene	9.88	0.500	"	10.0	ND	98.8	75-125	6.26	20	
trans-1,2-Dichloroethene	10.0	0.500	"	10.0	ND	100	75-125	6.29	20	
1,2-Dichloropropane	10.1	0.500	"	10.0	ND	101	75-125	1.30	20	
1,3-Dichloropropane	11.7	0.500	"	10.0	ND	117	75-125	5.26	20	
2,2-Dichloropropane	11.0	0.500	"	10.0	ND	110	75-125	4.44	20	
Di-isopropyl ether	10.5	5.00	"	10.0	ND	105	75-125	7.51	20	
Ethylbenzene	9.64	0.500	"	10.0	ND	96.4	75-125	6.53	20	
Hexachlorobutadiene	10.2	5.00	"	10.0	ND	102	75-125	5.03	20	
Isopropylbenzene	10.6	0.500	"	10.0	ND	106	75-125	6.33	20	
p-Isopropyltoluene	10.1	0.500	"	10.0	ND	101	75-125	8.14	20	
Methylene chloride	10.1	0.530	"	10.0	ND	101	75-125	0.985	20	
Methyl tert-butyl ether	9.82	0.500	"	10.0	ND	98.2	75-125	5.87	20	
Naphthalene	10.9	2.00	"	10.0	ND	109	75-125	4.69	20	
n-Propylbenzene	11.3	0.500	"	10.0	ND	113	75-125	7.34	20	
1,1,2,2-Tetrachloroethane	10.4	0.350	"	10.0	ND	104	75-125	0.00	20	
Tetrachloroethene	10.4	0.500	"	10.0	ND	104	75-125	6.04	20	
Toluene	10.0	0.500	"	10.0	ND	100	75-125	4.81	20	
1,2,3-Trichlorobenzene	10.7	2.00	"	10.0	ND	107	75-125	9.80	20	
1,2,4-Trichlorobenzene	10.8	2.00	"	10.0	ND	108	75-125	7.79	20	
1,1,1-Trichloroethane	11.5	0.500	"	10.0	ND	115	75-125	0.873	20	
1,1,2-Trichloroethane	11.2	0.160	"	10.0	ND	112	75-125	3.64	20	
Trichloroethene	10.0	0.500	"	10.0	ND	100	75-125	6.83	20	
Trichlorofluoromethane	9.00	0.500	"	10.0	ND	90.0	75-125	5.19	20	
1,2,4-Trimethylbenzene	10.9	1.00	"	10.0	ND	109	75-125	9.62	20	
1,3,5-Trimethylbenzene	10.4	1.00	"	10.0	ND	104	75-125	8.00	20	

Great Lakes Analytical--Oak Creek

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Matrix Spike Dup (1110088-MSD1)		**Source: W111177-01**		Prepared & Analyzed: 11/29/01						
Vinyl chloride	9.88	0.170	ug/l	10.0	ND	98.8	75-125	6.05	20	
Total Xylenes	30.4	0.500	"	30.0	ND	101	75-125	5.75	20	
Surrogate: 1-Cl-4-FB (ELCD)	*9.07*		"	*10.0*		*90.7*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
140 East Ryan Road
Oak Creek, Wisconsin 53154
Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 (Blanks) - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Blank (1110088-BLK1)				Prepared & Analyzed: 11/29/01						
Benzene	ND	0.500	ug/l							
Bromobenzene	ND	0.500	"							
Bromodichloromethane	ND	0.500	"							
n-Butylbenzene	ND	0.500	"							
sec-Butylbenzene	ND	0.500	"							
tert-Butylbenzene	ND	0.500	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	0.500	"							
Chloroform	ND	0.140	"							
Chloromethane	ND	0.600	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.390	"							
1,2-Dibromoethane	ND	0.380	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
1,3-Dichloropropane	ND	0.500	"							
2,2-Dichloropropane	ND	0.500	"							
Di-isopropyl ether	ND	5.00	"							
Ethylbenzene	ND	0.500	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.500	"							
Methylene chloride	ND	0.530	"							
Methyl tert-butyl ether	ND	0.500	"							

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

WDNR Volatile Organic Compounds by Method 8021 (Blanks) - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110088 - EPA 5030B (P/T)										
Blank (1110088-BLK1)				Prepared & Analyzed: 11/29/01						
Naphthalene	ND	2.00	ug/l							
n-Propylbenzene	ND	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.350	"							
Tetrachloroethene	ND	0.500	"							
Toluene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	2.00	"							
1,2,4-Trichlorobenzene	ND	2.00	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.160	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	0.170	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Cl-4-FB (ELCD)	*10.6*		"	*10.0*		*106*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*11.0*		"	*10.0*		*110*	*80-120*			
LCS (1110088-BS1)				Prepared & Analyzed: 11/29/01						
Surrogate: 1-Cl-4-FB (ELCD)	*9.03*		*ug/l*	*10.0*		*90.3*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			
Matrix Spike (1110088-MS1)		**Source: W111177-01**		Prepared & Analyzed: 11/29/01						
Surrogate: 1-Cl-4-FB (ELCD)	*9.38*		*ug/l*	*10.0*		*93.8*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			
Matrix Spike Dup (1110088-MSD1)		**Source: W111177-01**		Prepared & Analyzed: 11/29/01						
Surrogate: 1-Cl-4-FB (ELCD)	*9.07*		*ug/l*	*10.0*		*90.7*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

General Chemistry - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110485 - General Prep WC										
Blank (1110485-BLK1)				Prepared & Analyzed: 11/29/01						
Nitrate as N	ND	0.0500	mg/l							
LCS (1110485-BS1)				Prepared & Analyzed: 11/29/01						
Nitrate as N	1.09	0.0500	mg/l	1.00		109	70-116			
Matrix Spike (1110485-MS1)		Source: B111363-01		Prepared & Analyzed: 11/29/01						
Nitrate as N	1.12	0.0500	mg/l	1.00	ND	111	68-117			
Matrix Spike Dup (1110485-MSD1)		Source: B111363-01		Prepared & Analyzed: 11/29/01						
Nitrate as N	1.08	0.0500	mg/l	1.00	ND	107	68-117	3.64	15	
Batch 1110494 - General Prep WC										
Blank (1110494-BLK1)				Prepared: 11/29/01 Analyzed: 11/30/01						
Sulfate as SO4	ND	10.0	mg/l							
LCS (1110494-BS1)				Prepared: 11/29/01 Analyzed: 11/30/01						
Sulfate as SO4	27.3	10.0	mg/l	30.0		91.0	78-121			
Matrix Spike (1110494-MS1)		Source: B111313-01		Prepared: 11/29/01 Analyzed: 11/30/01						
Sulfate as SO4	101	10.0	mg/l	60.0	41.9	98.5	55-127			
Matrix Spike Dup (1110494-MSD1)		Source: B111313-01		Prepared: 11/29/01 Analyzed: 11/30/01						
Sulfate as SO4	102	10.0	mg/l	60.0	41.9	100	55-127	0.985	19	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Dissolved Metals by EPA 6000/7000 Series Methods - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110499 - EPA 3015										
Blank (1110499-BLK1)				Prepared & Analyzed: 11/30/01						
Manganese	ND	0.0500	mg/l							
LCS (1110499-BS1)				Prepared & Analyzed: 11/30/01						
Manganese	1.95	0.0500	mg/l	2.00		97.5	80.7-115			
Matrix Spike (1110499-MS1)		**Source: W111177-02**		Prepared & Analyzed: 11/30/01						
Manganese	2.31	0.0500	mg/l	2.00	0.304	100	79.1-119			
Matrix Spike Dup (1110499-MSD1)		**Source: W111177-02**		Prepared & Analyzed: 11/30/01						
Manganese	2.32	0.0500	mg/l	2.00	0.304	101	79.1-119	0.432	7.86	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110495 - EPA 3510C										
Blank (1110495-BLK1)				Prepared: 11/29/01 Analyzed: 11/30/01						
Acenaphthene	ND	5.00	ug/l							
Acenaphthylene	ND	5.00	"							
Anthracene	ND	5.00	"							
Benz (a) anthracene	ND	0.100	"							
Benzo (a) pyrene	ND	0.0200	"							
Benzo (b) fluoranthene	ND	0.0200	"							
Benzo (ghi) perylene	ND	5.00	"							
Benzo (k) fluoranthene	ND	0.100	"							
Chrysene	ND	0.0200	"							
Dibenz (a,h) anthracene	ND	0.100	"							
Fluoranthene	ND	5.00	"							
Fluorene	ND	5.00	"							
Indeno (1,2,3-cd) pyrene	ND	0.200	"							
1-Methylnaphthalene	ND	5.00	"							
2-Methylnaphthalene	ND	5.00	"							
Naphthalene	ND	5.00	"							
Phenanthrene	ND	5.00	"							
Pyrene	ND	5.00	"							
Surrogate: Carbazole	*0.469*		"	*0.500*		*93.8*	*24.5-122*			
LCS (1110495-BS1)				Prepared: 11/29/01 Analyzed: 11/30/01						
Acenaphthene	1.16	0.0500	ug/l	2.00		58.0	23.9-107			
Acenaphthylene	1.29	0.0500	"	2.00		64.5	21.6-101			
Anthracene	1.61	0.0500	"	2.00		80.5	24.8-107			
Benz (a) anthracene	1.39	0.00100	"	2.00		69.5	32.9-100			
Benzo (a) pyrene	1.39	0.000200	"	2.00		69.5	23.5-113			
Benzo (b) fluoranthene	1.37	0.000200	"	2.00		68.5	34.5-126			
Benzo (ghi) perylene	0.796	0.0500	"	2.00		39.8	35.7-97.5			
Benzo (k) fluoranthene	1.65	0.00100	"	2.00		82.5	42.9-113			
Chrysene	1.16	0.000200	"	2.00		58.0	39.9-110			
Dibenz (a,h) anthracene	0.939	0.00100	"	2.00		47.0	31.3-92.5			
Fluoranthene	1.63	0.0500	"	2.00		81.5	36.1-105			
Fluorene	1.39	0.0500	"	2.00		69.5	36.6-99.6			
Indeno (1,2,3-cd) pyrene	1.18	0.00200	"	2.00		59.0	41.5-95.7			
1-Methylnaphthalene	0.993	0.0500	"	2.00		49.6	20.5-110			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Polynuclear Aromatic Compounds by EPA Method 8310 - Quality Control
Great Lakes Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1110495 - EPA 3510C										
LCS (1110495-BS1)				Prepared: 11/29/01 Analyzed: 11/30/01						
2-Methylnaphthalene	1.03	0.0500	ug/l	2.00		51.5	20.9-109			
Naphthalene	0.916	0.0500	"	2.00		45.8	22-99.8			
Phenanthrene	1.25	0.0500	"	2.00		62.5	25.8-115			
Pyrene	0.803	0.0500	"	2.00		40.2	31.5-112			
Surrogate: Carbazole	*0.396*		"	*0.500*		*79.2*	*24.5-122*			
LCS Dup (1110495-BSD1)				Prepared: 11/29/01 Analyzed: 11/30/01						
Acenaphthene	1.29	0.0500	ug/l	2.00		64.5	23.9-107	10.6	62.5	
Acenaphthylene	1.46	0.0500	"	2.00		73.0	21.6-101	12.4	60.7	
Anthracene	1.67	0.0500	"	2.00		83.5	24.8-107	3.66	47.4	
Benz (a) anthracene	1.41	0.00100	"	2.00		70.5	32.9-100	1.43	47.4	
Benzo (a) pyrene	1.45	0.000200	"	2.00		72.5	23.5-113	4.23	45.2	
Benzo (b) fluoranthene	1.42	0.000200	"	2.00		71.0	34.5-126	3.58	52.4	
Benzo (ghi) perylene	0.886	0.0500	"	2.00		44.3	35.7-97.5	10.7	45.4	
Benzo (k) fluoranthene	1.72	0.00100	"	2.00		86.0	42.9-113	4.15	49.6	
Chrysene	1.18	0.000200	"	2.00		59.0	39.9-110	1.71	51.7	
Dibenz (a,h) anthracene	1.00	0.00100	"	2.00		50.0	31.3-92.5	6.29	53.2	
Fluoranthene	1.64	0.0500	"	2.00		82.0	36.1-105	0.612	58.8	
Fluorene	1.48	0.0500	"	2.00		74.0	36.6-99.6	6.27	52.5	
Indeno (1,2,3-cd) pyrene	1.15	0.00200	"	2.00		57.5	41.5-95.7	2.58	45.8	
1-Methylnaphthalene	1.14	0.0500	"	2.00		57.0	20.5-110	13.8	50.2	
2-Methylnaphthalene	1.16	0.0500	"	2.00		58.0	20.9-109	11.9	53.2	
Naphthalene	1.03	0.0500	"	2.00		51.5	22-99.8	11.7	57.2	
Phenanthrene	1.27	0.0500	"	2.00		63.5	25.8-115	1.59	55.9	
Pyrene	0.807	0.0500	"	2.00		40.4	31.5-112	0.497	50	
Surrogate: Carbazole	*0.394*		"	*0.500*		*78.8*	*24.5-122*			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	12/04/01 17:39

Notes and Definitions

G12	The reporting limit of this sample/analyte is elevated due to sample matrix and/or other effects.
O4	The recovery for this analyte is below the laboratory's established acceptance criteria.
O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
T10	Diesel Range
T11	Motor Oil Range
T15	Late Elevated Baseline
T2	Late Peaks
T6	Early Peaks
T8	Diesel Pattern
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Andrea Stathas, Project Manager

CHAIN OF CUSTODY REPORT

[redacted] LAKES ANALYTICAL

[redacted] 30 B[redacted] Parl[redacted] 140
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

an [redacted]
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: SiGMA Environmental
Address: 220 E. Ryan Rd.
Oak Creek WI 53154
Report to: Jim Westerman
Phone #: (414) 768 7144
Fax #: (414) 768 7158

Bill To: SAME
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: on ice
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515
Sampler: Tom Multhauf
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	VOC 8021	Sulfate Nitrate	Dissolved Manganese	DRO	PAH	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	MW-1 PID:	11-28-01	10:20	Ground water			3					3	3							W111177-01
2	MW-2 PID:		11:40				3	1			1	5	3	1	1					-02
3	MW-3 PID:		12:30				3	1			1	5	3	1	1					-03
4	MW-4 PID:		12:00				4	1			2	7	3	1	1	1	1			-04
5	MW-5 PID:		11:15				4	1			2	7	3	1	1	1	1			-05
6	MW-6 PID:		10:40				4	1			2	7	3	1	1	1	1			-06
7	Dup. PID:		—				3					3	3							-07
8	Equip. PID:		—				1					1	1							-08
9	Trip. PID:	—	—				2					2	2							-09
10	PID:																			

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	11-28-01 1245 PM	[signature]	11-28-01 1345				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

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11 February 2002

Jim Westerman
Sigma Environmental Services, Inc.
220 E. Ryan Road
Oak Creek, WI 53154

RE: 6515

Enclosed are the results of analyses for samples received by the laboratory on 02/04/02 13:15. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Andrea Stathas
Project Manager

State of Wisconsin Certification Numbers:
Great Lakes Analytical--Oak Creek, WI: 341000330
Great Lakes Analytical--Buffalo Grove, IL: 999917160

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	W202013-01	Water	02/01/02 11:30	02/04/02 13:15
MW-2	W202013-02	Water	02/01/02 13:00	02/04/02 13:15
MW-3	W202013-03	Water	02/01/02 13:15	02/04/02 13:15
MW-4	W202013-04	Water	02/01/02 13:30	02/04/02 13:15
MW-5	W202013-05	Water	02/01/02 11:55	02/04/02 13:15
MW-6	W202013-06	Water	02/01/02 11:40	02/04/02 13:15
MW-7	W202013-07	Water	02/01/02 12:10	02/04/02 13:15
MW-8	W202013-08	Water	02/01/02 12:20	02/04/02 13:15
MW-9	W202013-09	Water	02/01/02 12:30	02/04/02 13:15
PZ-1	W202013-10	Water	02/01/02 13:40	02/04/02 13:15
Dup	W202013-11	Water	02/01/02 00:00	02/04/02 13:15
Equip	W202013-12	Water	02/01/02 00:00	02/04/02 13:15
trip	W202013-13	Water	02/01/02 00:00	02/04/02 13:15

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W202013-01) Water	**Sampled: 02/01/02 11:30**	**Received: 02/04/02 13:15**							**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W202013-01) Water Sampled: 02/01/02 11:30 Received: 02/04/02 13:15									**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*127 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*122 %*	*80-120*		"	"	"	"	*O5*
MW-2 (W202013-02) Water Sampled: 02/01/02 13:00 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**8.23**	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W202013-02) Water	**Sampled: 02/01/02 13:00**	**Received: 02/04/02 13:15**							**QC**
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**7260**	125	"	250	"	"	02/07/02	"	
Toluene	ND	0.500	"	1	"	"	02/06/02	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**3.31**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*145 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*158 %*	*80-120*		"	"	"	"	*O5*

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W202013-03) Water	**Sampled: 02/01/02 13:15**	**Received: 02/04/02 13:15**							**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**185**	5.00	"	10	"	"	02/07/02	"	
trans-1,2-Dichloroethene	**3.44**	0.500	"	1	"	"	02/06/02	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**17800**	250	"	500	"	"	02/07/02	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W202013-03) Water Sampled: 02/01/02 13:15 Received: 02/04/02 13:15									**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**46.6**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	**18.5**	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*108 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*107 %*	*80-120*		"	"	"	"	
MW-4 (W202013-04) Water Sampled: 02/01/02 13:30 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W202013-04) Water	**Sampled: 02/01/02 13:30**	**Received: 02/04/02 13:15**							**QC**
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**3.90**	2.50	"	5	"	"	02/08/02	"	
Toluene	ND	0.500	"	1	"	"	02/06/02	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*101 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*80.7 %*	*80-120*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W202013-05) Water	**Sampled: 02/01/02 11:55**	**Received: 02/04/02 13:15**							**QC**
Benzene	**5.82**	0.500	ug/l	1	2020011	02/06/02	02/07/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	**2.47**	0.500	"	"	"	"	"	"	
sec-Butylbenzene	**3.68**	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	**6.53**	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	**6.10**	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	**7.30**	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W202013-05) Water Sampled: 02/01/02 11:55 Received: 02/04/02 13:15									**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/07/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*100 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*115 %*	*80-120*		"	"	"	"	
MW-6 (W202013-06) Water Sampled: 02/01/02 11:40 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W202013-06) Water	**Sampled: 02/01/02 11:40**	**Received: 02/04/02 13:15**							**QC**
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*126 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*146 %*	*80-120*		"	"	"	"	*O5*

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W202013-07) Water	**Sampled: 02/01/02 12:10**	**Received: 02/04/02 13:15**							**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W202013-07) Water Sampled: 02/01/02 12:10 Received: 02/04/02 13:15									**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*107 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*102 %*		*80-120*	"	"	"	"	
MW-8 (W202013-08) Water Sampled: 02/01/02 12:20 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (W202013-08) Water	**Sampled: 02/01/02 12:20**	**Received: 02/04/02 13:15**							**QC**
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*107 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*103 %*	*80-120*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W202013-09) Water	**Sampled: 02/01/02 12:30**	**Received: 02/04/02 13:15**							**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W202013-09) Water Sampled: 02/01/02 12:30 Received: 02/04/02 13:15									**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*107 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*103 %*	*80-120*		"	"	"	"	
PZ-1 (W202013-10) Water Sampled: 02/01/02 13:40 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/07/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	**1.15**	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (W202013-10) Water	**Sampled: 02/01/02 13:40**	**Received: 02/04/02 13:15**							**QC**
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	2020011	02/06/02	02/07/02	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	**1.71**	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	**1.65**	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*101 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*108 %*	*80-120*		"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup (W202013-11) Water Sampled: 02/01/02 00:00 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**179**	5.00	"	10	"	"	02/07/02	"	
trans-1,2-Dichloroethene	**3.33**	0.500	"	1	"	"	02/06/02	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**18700**	500	"	1000	"	"	02/08/02	"	

Great Lakes Analytical--Oak Creek

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GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Dup (W202013-11) Water	**Sampled: 02/01/02 00:00**	**Received: 02/04/02 13:15**							**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**37.7**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	**23.9**	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*139 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*110 %*	*80-120*		"	"	"	"	

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip (W202013-12) Water	**Sampled: 02/01/02 00:00**	**Received: 02/04/02 13:15**							**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Equip (W202013-12) Water Sampled: 02/01/02 00:00 Received: 02/04/02 13:15									**QC**
Toluene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*124 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*103 %*	*80-120*		"	"	"	"	
trip (W202013-13) Water Sampled: 02/01/02 00:00 Received: 02/04/02 13:15									**QC**
Benzene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
trip (W202013-13) Water	**Sampled: 02/01/02 00:00**	**Received: 02/04/02 13:15**							**QC**
trans-1,2-Dichloroethene	ND	0.500	ug/l	1	2020011	02/06/02	02/06/02	EPA 8021B	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*126 %*	*80-120*		"	"	"	"	*O5*
Surrogate: 1-Cl-4-FB (PID)		*128 %*	*80-120*		"	"	"	"	*O5*

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
Blank (2020011-BLK1)				Prepared & Analyzed: 02/06/02						
Benzene	ND	0.500	ug/l							
Bromobenzene	ND	0.500	"							
Bromodichloromethane	ND	0.500	"							
n-Butylbenzene	ND	0.500	"							
sec-Butylbenzene	ND	0.500	"							
tert-Butylbenzene	ND	0.500	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	0.500	"							
Chloroform	ND	0.140	"							
Chloromethane	ND	0.600	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.390	"							
1,2-Dibromoethane	ND	0.380	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
1,3-Dichloropropane	ND	0.500	"							
2,2-Dichloropropane	ND	0.500	"							
Di-isopropyl ether	ND	5.00	"							
Ethylbenzene	ND	0.500	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.500	"							
Methylene chloride	ND	0.530	"							
Methyl tert-butyl ether	ND	0.500	"							

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
Blank (2020011-BLK1)				Prepared & Analyzed: 02/06/02						
Naphthalene	ND	2.00	ug/l							
n-Propylbenzene	ND	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.350	"							
Tetrachloroethene	ND	0.500	"							
Toluene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	2.00	"							
1,2,4-Trichlorobenzene	ND	2.00	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.160	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	0.170	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Cl-4-FB (ELCD)	*12.2*		"	*10.0*		*122*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*12.0*		"	*10.0*		*120*	*80-120*			
LCS (2020011-BS1)				Prepared & Analyzed: 02/06/02						
Benzene	10.3	0.500	ug/l	10.0		103	85-115			
Bromobenzene	9.50	0.500	"	10.0		95.0	85-115			
Bromodichloromethane	13.2	0.500	"	10.0		132	85-115			
n-Butylbenzene	9.99	0.500	"	10.0		99.9	85-115			
sec-Butylbenzene	10.2	0.500	"	10.0		102	85-115			
tert-Butylbenzene	9.70	0.500	"	10.0		97.0	85-115			
Carbon tetrachloride	10.3	0.500	"	10.0		103	85-115			
Chlorobenzene	9.33	0.500	"	10.0		93.3	85-115			
Chloroethane	9.80	0.500	"	10.0		98.0	85-115			
Chloroform	10.5	0.140	"	10.0		105	85-115			
Chloromethane	9.88	0.600	"	10.0		98.8	85-115			
2-Chlorotoluene	9.63	0.500	"	10.0		96.3	85-115			
4-Chlorotoluene	10.2	0.500	"	10.0		102	85-115			
Dibromochloromethane	11.0	0.500	"	10.0		110	85-115			
1,2-Dibromo-3-chloropropane	11.4	0.390	"	10.0		114	85-115			
1,2-Dibromoethane	11.3	0.380	"	10.0		113	85-115			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
LCS (2020011-BS1)				Prepared & Analyzed: 02/06/02						
1,2-Dichlorobenzene	9.54	0.500	ug/l	10.0		95.4	85-115			
1,3-Dichlorobenzene	10.3	0.500	"	10.0		103	85-115			
1,4-Dichlorobenzene	10.3	0.500	"	10.0		103	85-115			
Dichlorodifluoromethane	9.41	0.500	"	10.0		94.1	85-115			
1,1-Dichloroethane	11.2	0.500	"	10.0		112	85-115			
1,2-Dichloroethane	12.9	0.500	"	10.0		129	85-115			
1,1-Dichloroethene	10.2	0.500	"	10.0		102	85-115			
cis-1,2-Dichloroethene	9.54	0.500	"	10.0		95.4	85-115			
trans-1,2-Dichloroethene	9.90	0.500	"	10.0		99.0	85-115			
1,2-Dichloropropane	11.4	0.500	"	10.0		114	85-115			
1,3-Dichloropropane	10.4	0.500	"	10.0		104	85-115			
2,2-Dichloropropane	11.0	0.500	"	10.0		110	85-115			
Di-isopropyl ether	9.86	5.00	"	10.0		98.6	85-115			
Ethylbenzene	9.10	0.500	"	10.0		91.0	85-115			
Hexachlorobutadiene	9.54	5.00	"	10.0		95.4	85-115			
Isopropylbenzene	9.20	0.500	"	10.0		92.0	85-115			
p-Isopropyltoluene	10.3	0.500	"	10.0		103	85-115			
Methylene chloride	11.3	0.530	"	10.0		113	85-115			
Methyl tert-butyl ether	9.21	0.500	"	10.0		92.1	85-115			
Naphthalene	10.8	2.00	"	10.0		108	85-115			
n-Propylbenzene	10.6	0.500	"	10.0		106	85-115			
1,1,2,2-Tetrachloroethane	10.1	0.350	"	10.0		101	85-115			
Tetrachloroethene	9.80	0.500	"	10.0		98.0	85-115			
Toluene	10.6	0.500	"	10.0		106	85-115			
1,2,3-Trichlorobenzene	9.86	2.00	"	10.0		98.6	85-115			
1,2,4-Trichlorobenzene	10.4	2.00	"	10.0		104	85-115			
1,1,1-Trichloroethane	11.3	0.500	"	10.0		113	85-115			
1,1,2-Trichloroethane	10.7	0.160	"	10.0		107	85-115			
Trichloroethene	10.2	0.500	"	10.0		102	85-115			
Trichlorofluoromethane	10.6	0.500	"	10.0		106	85-115			
1,2,4-Trimethylbenzene	10.1	1.00	"	10.0		101	85-115			
1,3,5-Trimethylbenzene	9.57	1.00	"	10.0		95.7	85-115			
Vinyl chloride	10.5	0.170	"	10.0		105	85-115			
Total Xylenes	28.6	0.500	"	30.0		95.3	85-115			
Surrogate: 1-Cl-4-FB (ELCD)	*9.65*		"	*10.0*		*96.5*	*80-120*			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
LCS (2020011-BS1)				Prepared & Analyzed: 02/06/02						
Surrogate: 1-Cl-4-FB (PID)	*10.2*		"	*10.0*		*102*	*80-120*			
Matrix Spike (2020011-MS1)		**Source: W202013-01**		Prepared & Analyzed: 02/06/02						
Benzene	9.33	0.500	ug/l	10.0	ND	93.3	75-125			
Bromobenzene	8.97	0.500	"	10.0	ND	89.7	75-125			
Bromodichloromethane	11.1	0.500	"	10.0	ND	111	75-125			
n-Butylbenzene	9.45	0.500	"	10.0	ND	94.5	75-125			
sec-Butylbenzene	9.18	0.500	"	10.0	ND	91.8	75-125			
tert-Butylbenzene	9.14	0.500	"	10.0	ND	91.4	75-125			
Carbon tetrachloride	10.6	0.500	"	10.0	ND	106	75-125			
Chlorobenzene	8.69	0.500	"	10.0	ND	86.9	75-125			
Chloroethane	9.96	0.500	"	10.0	ND	99.6	75-125			
Chloroform	10.8	0.140	"	10.0	ND	108	75-125			
Chloromethane	9.61	0.600	"	10.0	ND	96.1	75-125			
2-Chlorotoluene	10.3	0.500	"	10.0	ND	103	75-125			
4-Chlorotoluene	9.42	0.500	"	10.0	ND	94.2	75-125			
Dibromochloromethane	11.1	0.500	"	10.0	ND	111	75-125			
1,2-Dibromo-3-chloropropane	10.7	0.390	"	10.0	ND	107	75-125			
1,2-Dibromoethane	11.4	0.380	"	10.0	ND	114	75-125			
1,2-Dichlorobenzene	9.16	0.500	"	10.0	ND	91.6	75-125			
1,3-Dichlorobenzene	9.60	0.500	"	10.0	ND	96.0	75-125			
1,4-Dichlorobenzene	9.89	0.500	"	10.0	ND	98.9	75-125			
Dichlorodifluoromethane	7.75	0.500	"	10.0	ND	77.5	75-125			
1,1-Dichloroethane	11.3	0.500	"	10.0	ND	113	75-125			
1,2-Dichloroethane	12.5	0.500	"	10.0	ND	125	75-125			
1,1-Dichloroethene	9.31	0.500	"	10.0	ND	93.1	75-125			
cis-1,2-Dichloroethene	8.81	0.500	"	10.0	ND	88.1	75-125			
trans-1,2-Dichloroethene	8.88	0.500	"	10.0	ND	88.8	75-125			
1,2-Dichloropropane	11.4	0.500	"	10.0	ND	114	75-125			
1,3-Dichloropropane	12.4	0.500	"	10.0	ND	124	75-125			
2,2-Dichloropropane	11.3	0.500	"	10.0	ND	113	75-125			
Di-isopropyl ether	9.60	5.00	"	10.0	ND	96.0	75-125			
Ethylbenzene	8.35	0.500	"	10.0	ND	83.5	75-125			
Hexachlorobutadiene	8.74	5.00	"	10.0	ND	87.4	75-125			
Isopropylbenzene	8.63	0.500	"	10.0	ND	86.3	75-125			

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
Matrix Spike (2020011-MS1)		**Source: W202013-01**		Prepared & Analyzed: 02/06/02						
p-Isopropyltoluene	9.47	0.500	ug/l	10.0	ND	94.7	75-125			
Methylene chloride	11.2	0.530	"	10.0	ND	112	75-125			
Methyl tert-butyl ether	9.22	0.500	"	10.0	ND	92.2	75-125			
Naphthalene	10.7	2.00	"	10.0	ND	107	75-125			
n-Propylbenzene	9.92	0.500	"	10.0	ND	99.2	75-125			
1,1,2,2-Tetrachloroethane	11.2	0.350	"	10.0	ND	112	75-125			
Tetrachloroethene	9.43	0.500	"	10.0	ND	94.3	75-125			
Toluene	9.68	0.500	"	10.0	ND	96.8	75-125			
1,2,3-Trichlorobenzene	9.07	2.00	"	10.0	ND	90.7	75-125			
1,2,4-Trichlorobenzene	9.30	2.00	"	10.0	ND	93.0	75-125			
1,1,1-Trichloroethane	11.0	0.500	"	10.0	ND	110	75-125			
1,1,2-Trichloroethane	11.0	0.160	"	10.0	ND	110	75-125			
Trichloroethene	9.28	0.500	"	10.0	ND	92.8	75-125			
Trichlorofluoromethane	10.9	0.500	"	10.0	ND	109	75-125			
1,2,4-Trimethylbenzene	8.48	1.00	"	10.0	ND	84.8	75-125			
1,3,5-Trimethylbenzene	8.63	1.00	"	10.0	ND	86.3	75-125			
Vinyl chloride	9.68	0.170	"	10.0	ND	96.8	75-125			
Total Xylenes	26.2	0.500	"	30.0	ND	87.3	75-125			
Surrogate: 1-Cl-4-FB (ELCD)	*9.64*		"	*10.0*		*96.4*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.1*		"	*10.0*		*101*	*80-120*			
Matrix Spike Dup (2020011-MSD1)		**Source: W202013-01**		Prepared & Analyzed: 02/06/02						
Benzene	10.9	0.500	ug/l	10.0	ND	109	75-125	15.5	20	
Bromobenzene	9.45	0.500	"	10.0	ND	94.5	75-125	5.21	20	
Bromodichloromethane	11.4	0.500	"	10.0	ND	114	75-125	2.67	20	
n-Butylbenzene	9.74	0.500	"	10.0	ND	97.4	75-125	3.02	20	
sec-Butylbenzene	9.93	0.500	"	10.0	ND	99.3	75-125	7.85	20	
tert-Butylbenzene	9.68	0.500	"	10.0	ND	96.8	75-125	5.74	20	
Carbon tetrachloride	10.8	0.500	"	10.0	ND	108	75-125	1.87	20	
Chlorobenzene	9.22	0.500	"	10.0	ND	92.2	75-125	5.92	20	
Chloroethane	10.3	0.500	"	10.0	ND	103	75-125	3.36	20	
Chloroform	9.67	0.140	"	10.0	ND	96.7	75-125	11.0	20	
Chloromethane	9.70	0.600	"	10.0	ND	97.0	75-125	0.932	20	
2-Chlorotoluene	9.71	0.500	"	10.0	ND	97.1	75-125	5.90	20	
4-Chlorotoluene	10.0	0.500	"	10.0	ND	100	75-125	5.97	20	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
Matrix Spike Dup (2020011-MSD1)	**Source: W202013-01**			Prepared & Analyzed: 02/06/02						
Dibromochloromethane	11.7	0.500	ug/l	10.0	ND	117	75-125	5.26	20	
1,2-Dibromo-3-chloropropane	10.7	0.390	"	10.0	ND	107	75-125	0.00	20	
1,2-Dibromoethane	11.1	0.380	"	10.0	ND	111	75-125	2.67	20	
1,2-Dichlorobenzene	9.67	0.500	"	10.0	ND	96.7	75-125	5.42	20	
1,3-Dichlorobenzene	10.0	0.500	"	10.0	ND	100	75-125	4.08	20	
1,4-Dichlorobenzene	10.7	0.500	"	10.0	ND	107	75-125	7.87	20	
Dichlorodifluoromethane	9.53	0.500	"	10.0	ND	95.3	75-125	20.6	20	
1,1-Dichloroethane	11.7	0.500	"	10.0	ND	117	75-125	3.48	20	
1,2-Dichloroethane	12.5	0.500	"	10.0	ND	125	75-125	0.00	20	
1,1-Dichloroethene	9.94	0.500	"	10.0	ND	99.4	75-125	6.55	20	
cis-1,2-Dichloroethene	9.61	0.500	"	10.0	ND	96.1	75-125	8.69	20	
trans-1,2-Dichloroethene	9.71	0.500	"	10.0	ND	97.1	75-125	8.93	20	
1,2-Dichloropropane	12.3	0.500	"	10.0	ND	123	75-125	7.59	20	
1,3-Dichloropropane	11.1	0.500	"	10.0	ND	111	75-125	11.1	20	
2,2-Dichloropropane	11.2	0.500	"	10.0	ND	112	75-125	0.889	20	
Di-isopropyl ether	10.4	5.00	"	10.0	ND	104	75-125	8.00	20	
Ethylbenzene	8.87	0.500	"	10.0	ND	88.7	75-125	6.04	20	
Hexachlorobutadiene	10.6	5.00	"	10.0	ND	106	75-125	19.2	20	
Isopropylbenzene	8.95	0.500	"	10.0	ND	89.5	75-125	3.64	20	
p-Isopropyltoluene	9.92	0.500	"	10.0	ND	99.2	75-125	4.64	20	
Methylene chloride	11.8	0.530	"	10.0	ND	118	75-125	5.22	20	
Methyl tert-butyl ether	9.96	0.500	"	10.0	ND	99.6	75-125	7.72	20	
Naphthalene	12.2	2.00	"	10.0	ND	122	75-125	13.1	20	
n-Propylbenzene	10.6	0.500	"	10.0	ND	106	75-125	6.63	20	
1,1,2,2-Tetrachloroethane	11.6	0.350	"	10.0	ND	116	75-125	3.51	20	
Tetrachloroethene	9.52	0.500	"	10.0	ND	95.2	75-125	0.950	20	
Toluene	10.3	0.500	"	10.0	ND	103	75-125	6.21	20	
1,2,3-Trichlorobenzene	10.1	2.00	"	10.0	ND	101	75-125	10.7	20	
1,2,4-Trichlorobenzene	10.1	2.00	"	10.0	ND	101	75-125	8.25	20	
1,1,1-Trichloroethane	11.1	0.500	"	10.0	ND	111	75-125	0.905	20	
1,1,2-Trichloroethane	11.5	0.160	"	10.0	ND	115	75-125	4.44	20	
Trichloroethene	10.8	0.500	"	10.0	ND	108	75-125	15.1	20	
Trichlorofluoromethane	11.5	0.500	"	10.0	ND	115	75-125	5.36	20	
1,2,4-Trimethylbenzene	9.24	1.00	"	10.0	ND	92.4	75-125	8.58	20	
1,3,5-Trimethylbenzene	9.27	1.00	"	10.0	ND	92.7	75-125	7.15	20	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2020011 - EPA 5030B (P/T)										
Matrix Spike Dup (2020011-MSD1)		**Source: W202013-01**		Prepared & Analyzed: 02/06/02						
Vinyl chloride	10.2	0.170	ug/l	10.0	ND	102	75-125	5.23	20	
Total Xylenes	27.9	0.500	"	30.0	ND	93.0	75-125	6.28	20	
Surrogate: 1-Cl-4-FB (ELCD)	*9.46*		"	*10.0*		*94.6*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.1*		"	*10.0*		*101*	*80-120*			

Great Lakes Analytical--Oak Creek

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GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	02/11/02 18:03

Notes and Definitions

O5	The recovery for this analyte is above the laboratory's established acceptance criteria.
QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1280 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Env.
Address: 220 E. Ryan Rd.
Oak Creek, WI 53154
Report to:
Phone #: (414) 768-7144
Fax #: ( )

Bill To:
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: ICE
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515 Norman Getz Prop.
Sampler: Dave Dailey
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	VOC	ANALYSIS TYPE	SAMPLE CONTROL: CRACKED-BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	mw-1 PID:	2-1-02	11:30	GW		3						3	X				W202013-01
2	mw-2 PID:		1:00														-02
3	mw-3 PID:		1:15														-03
4	mw-4 PID:		1:30														-04
5	mw-5 PID:		11:55														-05
6	mw-6 PID:		11:40														-06
7	mw-7 PID:		12:10														-07
8	mw-8 PID:		12:20														-08
9	mw-9 PID:		12:30														-09
10	pz-1 PID:		1:40														W202013-10

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
David Dailey	2-1-02 3:30	[signature]	2-1-02 3:30				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma
Address: 220 E. Ryan Rd
Oak Creek, WI 53154
Report to:
Phone #: (414) 768-7144
Fax #: ( )

Bill To:
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: STD. 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
TEMPERATURE UPON RECEIPT: ICE
Deliverable Package Needed: ☐ STD ☐ Other
Air Bill No.

Project: 6515 Norman Getz Prop.
Sampler: Dave Dailey
PO/Quote #:

	FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	ANALYSIS TYPE: VOC	SAMPLE CONTROL: CRACKED/BROKEN	IMPROPERLY SEALED	LABORATORY ID NUMBER
1	Dup. PID:	2.1.02		GW			2				2	2	X			W202013-11
2	Equip. PID:	1					2				2	2	X			-12
3	Trip PID:						1				1	1	X			W202013-13
4	PID:															
5	PID:															
6	PID:															
7	PID:															
8	PID:															
9	PID:															
10	PID:															

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
David Dailey	2/1/02 3:30 pm	[signature]	2/1/02 3:30				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

PAGE OF

GREAT LAKES ANALYTICAL

140 East Ryan Road
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01 August 2002

Jim Westerman
Sigma Environmental Services, Inc.
220 E. Ryan Road
Oak Creek, WI 53154
RE: 6515

Enclosed are the results of analyses for samples received by the laboratory on 07/26/02. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Great Lakes Analytical

Andrea Stathas
Project Manager

State of Wisconsin Certification Numbers:
Great Lakes Analytical--Oak Creek, WI: 341000330
Great Lakes Analytical--Buffalo Grove, IL: 999917160

GREAT LAKES ANALYTICAL

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Oak Creek, Wisconsin 53154

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	W207270-01	Water	07/26/02 09:30	07/26/02 13:49
MW-2	W207270-02	Water	07/26/02 11:15	07/26/02 13:49
MW-3	W207270-03	Water	07/26/02 11:30	07/26/02 13:49
MW-4	W207270-04	Water	07/26/02 11:45	07/26/02 13:49
MW-5	W207270-05	Water	07/26/02 12:00	07/26/02 13:49
MW-6	W207270-06	Water	07/26/02 09:45	07/26/02 13:49
MW-7	W207270-07	Water	07/26/02 10:00	07/26/02 13:49
MW-8	W207270-08	Water	07/26/02 10:15	07/26/02 13:49
MW-9	W207270-09	Water	07/26/02 10:30	07/26/02 13:49
MW-10	W207270-10	Water	07/26/02 11:00	07/26/02 13:49
PZ-1	W207270-11	Water	07/26/02 10:45	07/26/02 13:49
DUP	W207270-12	Water	07/26/02 00:00	07/26/02 13:49
EQUIP	W207270-13	Water	07/26/02 00:00	07/26/02 13:49
TRIP	W207270-14	Water	07/26/02 00:00	07/26/02 13:49

Great Lakes Analytical--Oak Creek

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Andrea Stathas

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W207270-01) Water Sampled: 07/26/02 09:30 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL
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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (W207270-01) Water	**Sampled: 07/26/02 09:30**	**Received: 07/26/02 13:49**							**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*125 %*		*80-120*	"	"	"	"	H
Surrogate: 1-Cl-4-FB (PID)		*99.8 %*		*80-120*	"	"	"	"	
MW-2 (W207270-02) Water	**Sampled: 07/26/02 11:15**	**Received: 07/26/02 13:49**							**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	**0.513**	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**6.32**	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas

Andrea Stathas, Project Manager

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Oak Creek, Wisconsin 53154

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(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-2 (W207270-02) Water	**Sampled: 07/26/02 11:15**	**Received: 07/26/02 13:49**							**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**2870**	100	"	200	"	"	07/30/02	"	
Toluene	ND	0.500	"	1	"	"	07/29/02	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*102 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*137 %*		*80-120*	"	"	"	"	H

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W207270-03) Water	**Sampled: 07/26/02 11:30**	**Received: 07/26/02 13:49**							**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**229**	5.00	"	10	"	"	07/30/02	"	
trans-1,2-Dichloroethene	**2.70**	0.500	"	1	"	"	07/29/02	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**14300**	250	"	500	"	"	07/30/02	"	
Toluene	ND	0.500	"	1	"	"	07/29/02	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-3 (W207270-03) Water Sampled: 07/26/02 11:30 Received: 07/26/02 13:49									**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**65.4**	5.00	"	10	"	"	07/30/02	"	
Trichlorofluoromethane	ND	0.500	"	1	"	"	07/29/02	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	**5.45**	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*118 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*109 %*	*80-120*		"	"	"	"	
MW-4 (W207270-04) Water Sampled: 07/26/02 11:45 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-4 (W207270-04) Water	**Sampled: 07/26/02 11:45**	**Received: 07/26/02 13:49**							**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**4.34**	0.500	"	"	"	"	07/30/02	"	
Toluene	ND	0.500	"	"	"	"	07/29/02	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*108 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*101 %*	*80-120*		"	"	"	"	

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W207270-05) Water	**Sampled: 07/26/02 12:00**	**Received: 07/26/02 13:49**							**QC**
Benzene	**15.7**	0.500	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	**10.2**	0.500	"	"	"	"	"	"	
sec-Butylbenzene	**15.1**	0.500	"	"	"	"	"	"	
tert-Butylbenzene	**1.05**	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	**1.95**	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	**22.0**	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	**1.36**	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.63**	0.500	"	"	"	"	"	"	
Naphthalene	**7.41**	2.00	"	"	"	"	"	"	
n-Propylbenzene	**27.7**	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-5 (W207270-05) Water	**Sampled: 07/26/02 12:00**	**Received: 07/26/02 13:49**							**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	**2.26**	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*109 %*		*80-120*		"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*91.9 %*		*80-120*		"	"	"	
MW-6 (W207270-06) Water	**Sampled: 07/26/02 09:45**	**Received: 07/26/02 13:49**							**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-6 (W207270-06) Water	**Sampled: 07/26/02 09:45**	**Received: 07/26/02 13:49**							**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*112 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*100 %*	*80-120*		"	"	"	"	

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W207270-07) Water Sampled: 07/26/02 10:00 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-7 (W207270-07) Water Sampled: 07/26/02 10:00 Received: 07/26/02 13:49									**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*92.4 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*100 %*		*80-120*	"	"	"	"	
MW-8 (W207270-08) Water Sampled: 07/26/02 10:15 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-8 (W207270-08) Water	**Sampled: 07/26/02 10:15**	**Received: 07/26/02 13:49**							**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	**0.866**	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*98.6 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*100 %*	*80-120*		"	"	"	"	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W207270-09) Water Sampled: 07/26/02 10:30 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (W207270-09) Water Sampled: 07/26/02 10:30 Received: 07/26/02 13:49									**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*106 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*95.7 %*		*80-120*	"	"	"	"	
MW-10 (W207270-10) Water Sampled: 07/26/02 11:00 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	**3.70**	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-10 (W207270-10) Water Sampled: 07/26/02 11:00 Received: 07/26/02 13:49									**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**1070**	50.0	"	100	"	"	07/30/02	"	
Toluene	ND	0.500	"	1	"	"	07/29/02	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	**5.19**	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*98.6 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*90.7 %*	*80-120*		"	"	"	"	

Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (W207270-11) Water Sampled: 07/26/02 10:45 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**4.03**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
PZ-1 (W207270-11) Water Sampled: 07/26/02 10:45 Received: 07/26/02 13:49									**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*101 %*		*80-120*		"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*97.0 %*		*80-120*		"	"	"	
DUP (W207270-12) Water Sampled: 07/26/02 00:00 Received: 07/26/02 13:49									**QC**
Benzene	**14.1**	0.500	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	**11.9**	0.500	"	"	"	"	"	"	
sec-Butylbenzene	**14.1**	0.500	"	"	"	"	"	"	
tert-Butylbenzene	**1.98**	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
DUP (W207270-12) Water	**Sampled: 07/26/02 00:00**	**Received: 07/26/02 13:49**							**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/30/02	EPA 8021B	
Ethylbenzene	**1.80**	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	**20.6**	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	**1.27**	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	**2.10**	0.500	"	"	"	"	"	"	
Naphthalene	**8.90**	2.00	"	"	"	"	"	"	
n-Propylbenzene	**26.0**	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	**1.91**	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*109 %*	*80-120*		"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*94.5 %*	*80-120*		"	"	"	"	

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EQUIP (W207270-13) Water	**Sampled: 07/26/02 00:00**	**Received: 07/26/02 13:49**							**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
Di-isopropyl ether	ND	5.00	"	"	"	"	"	"	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	**5.88**	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EQUIP (W207270-13) Water Sampled: 07/26/02 00:00 Received: 07/26/02 13:49									**QC**
1,2,4-Trichlorobenzene	ND	2.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*104 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*97.2 %*		*80-120*	"	"	"	"	
TRIP (W207270-14) Water Sampled: 07/26/02 00:00 Received: 07/26/02 13:49									**QC**
Benzene	ND	0.500	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Bromobenzene	ND	0.500	"	"	"	"	"	"	
Bromodichloromethane	ND	0.500	"	"	"	"	"	"	
n-Butylbenzene	ND	0.500	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.500	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.500	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.500	"	"	"	"	"	"	
Chlorobenzene	ND	0.500	"	"	"	"	"	"	
Chloroethane	ND	0.500	"	"	"	"	"	"	
Chloroform	ND	0.140	"	"	"	"	"	"	
Chloromethane	ND	0.600	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
4-Chlorotoluene	ND	0.500	"	"	"	"	"	"	
Dibromochloromethane	ND	0.500	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	0.390	"	"	"	"	"	"	
1,2-Dibromoethane	ND	0.380	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	0.500	"	"	"	"	"	"	
Dichlorodifluoromethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,2-Dichloroethane	ND	0.500	"	"	"	"	"	"	
1,1-Dichloroethene	ND	0.500	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	0.500	"	"	"	"	"	"	
1,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	
1,3-Dichloropropane	ND	0.500	"	"	"	"	"	"	
2,2-Dichloropropane	ND	0.500	"	"	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 (Blanks)

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TRIP (W207270-14) Water Sampled: 07/26/02 00:00 Received: 07/26/02 13:49									**QC**
Di-isopropyl ether	ND	5.00	ug/l	1	2070169	07/29/02	07/29/02	EPA 8021B	
Ethylbenzene	ND	0.500	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.00	"	"	"	"	"	"	
Isopropylbenzene	ND	0.500	"	"	"	"	"	"	
p-Isopropyltoluene	ND	0.500	"	"	"	"	"	"	
Methylene chloride	ND	0.530	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	0.500	"	"	"	"	"	"	
Naphthalene	ND	2.00	"	"	"	"	"	"	
n-Propylbenzene	ND	0.500	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.350	"	"	"	"	"	"	
Tetrachloroethene	ND	0.500	"	"	"	"	"	"	
Toluene	ND	0.500	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	2.00	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.500	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.160	"	"	"	"	"	"	
Trichloroethene	ND	0.500	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.500	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	1.00	"	"	"	"	"	"	
Vinyl chloride	ND	0.170	"	"	"	"	"	"	
Total Xylenes	ND	0.500	"	"	"	"	"	"	
Surrogate: 1-Cl-4-FB (ELCD)		*113 %*		*80-120*	"	"	"	"	
Surrogate: 1-Cl-4-FB (PID)		*96.4 %*		*80-120*	"	"	"	"	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Blank (2070169-BLK1)				Prepared & Analyzed: 07/29/02						
Benzene	ND	0.500	ug/l							
Bromobenzene	ND	0.500	"							
Bromodichloromethane	ND	0.500	"							
n-Butylbenzene	ND	0.500	"							
sec-Butylbenzene	ND	0.500	"							
tert-Butylbenzene	ND	0.500	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	0.500	"							
Chloroform	1.04	0.140	"							
Chloromethane	ND	0.600	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.390	"							
1,2-Dibromoethane	ND	0.380	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
1,3-Dichloropropane	ND	0.500	"							
2,2-Dichloropropane	ND	0.500	"							
Di-isopropyl ether	ND	5.00	"							
Ethylbenzene	ND	0.500	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.500	"							
Methylene chloride	ND	0.530	"							

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Blank (2070169-BLK1)				Prepared & Analyzed: 07/29/02						
Methyl tert-butyl ether	ND	0.500	ug/l							
Naphthalene	ND	2.00	"							
n-Propylbenzene	ND	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.350	"							
Tetrachloroethene	ND	0.500	"							
Toluene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	2.00	"							
1,2,4-Trichlorobenzene	ND	2.00	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.160	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	0.170	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Cl-4-FB (ELCD)	*11.3*		"	*10.0*		*113*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.5*		"	*10.0*		*105*	*80-120*			
LCS (2070169-BS1)				Prepared & Analyzed: 07/29/02						
Benzene	9.71	0.500	ug/l	10.0		97.1	85-115			
Bromobenzene	10.6	0.500	"	10.0		106	85-115			
Bromodichloromethane	10.2	0.500	"	10.0		102	85-115			
n-Butylbenzene	9.93	0.500	"	10.0		99.3	85-115			
sec-Butylbenzene	10.9	0.500	"	10.0		109	85-115			
tert-Butylbenzene	10.6	0.500	"	10.0		106	85-115			
Carbon tetrachloride	11.0	0.500	"	10.0		110	85-115			
Chlorobenzene	10.2	0.500	"	10.0		102	85-115			
Chloroethane	9.15	0.500	"	10.0		91.5	85-115			
Chloroform	9.96	0.140	"	10.0		99.6	85-115			
Chloromethane	2.80	0.600	"	10.0		28.0	85-115			L
2-Chlorotoluene	11.1	0.500	"	10.0		111	85-115			
4-Chlorotoluene	10.8	0.500	"	10.0		108	85-115			
Dibromochloromethane	10.2	0.500	"	10.0		102	85-115			

Great Lakes Analytical--Oak Creek

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220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
LCS (2070169-BS1)				Prepared & Analyzed: 07/29/02						
1,2-Dibromo-3-chloropropane	10.6	0.390	ug/l	10.0		106	85-115			
1,2-Dibromoethane	10.5	0.380	"	10.0		105	85-115			
1,2-Dichlorobenzene	11.1	0.500	"	10.0		111	85-115			
1,3-Dichlorobenzene	10.4	0.500	"	10.0		104	85-115			
1,4-Dichlorobenzene	10.1	0.500	"	10.0		101	85-115			
Dichlorodifluoromethane	5.52	0.500	"	10.0		55.2	85-115			L
1,1-Dichloroethane	10.3	0.500	"	10.0		103	85-115			
1,2-Dichloroethane	11.1	0.500	"	10.0		111	85-115			
1,1-Dichloroethene	9.66	0.500	"	10.0		96.6	85-115			
cis-1,2-Dichloroethene	9.66	0.500	"	10.0		96.6	85-115			
trans-1,2-Dichloroethene	9.46	0.500	"	10.0		94.6	85-115			
1,2-Dichloropropane	11.8	0.500	"	10.0		118	85-115			H
1,3-Dichloropropane	9.71	0.500	"	10.0		97.1	85-115			
2,2-Dichloropropane	9.81	0.500	"	10.0		98.1	85-115			
Di-isopropyl ether	9.82	5.00	"	10.0		98.2	85-115			
Ethylbenzene	9.87	0.500	"	10.0		98.7	85-115			
Hexachlorobutadiene	9.92	5.00	"	10.0		99.2	85-115			
Isopropylbenzene	11.1	0.500	"	10.0		111	85-115			
p-Isopropyltoluene	10.0	0.500	"	10.0		100	85-115			
Methylene chloride	9.54	0.530	"	10.0		95.4	85-115			
Methyl tert-butyl ether	8.80	0.500	"	10.0		88.0	85-115			
Naphthalene	8.72	2.00	"	10.0		87.2	85-115			
n-Propylbenzene	11.4	0.500	"	10.0		114	85-115			
1,1,2,2-Tetrachloroethane	9.32	0.350	"	10.0		93.2	85-115			
Tetrachloroethene	8.95	0.500	"	10.0		89.5	85-115			
Toluene	9.66	0.500	"	10.0		96.6	85-115			
1,2,3-Trichlorobenzene	10.3	2.00	"	10.0		103	85-115			
1,2,4-Trichlorobenzene	10.4	2.00	"	10.0		104	85-115			
1,1,1-Trichloroethane	10.3	0.500	"	10.0		103	85-115			
1,1,2-Trichloroethane	9.81	0.160	"	10.0		98.1	85-115			
Trichloroethene	10.2	0.500	"	10.0		102	85-115			
Trichlorofluoromethane	10.3	0.500	"	10.0		103	85-115			
1,2,4-Trimethylbenzene	9.85	1.00	"	10.0		98.5	85-115			
1,3,5-Trimethylbenzene	10.8	1.00	"	10.0		108	85-115			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
LCS (2070169-BS1)				Prepared & Analyzed: 07/29/02						
Vinyl chloride	10.8	0.170	ug/l	10.0		108	85-115			
Total Xylenes	31.3	0.500	"	30.0		104	85-115			
Surrogate: 1-Cl-4-FB (ELCD)	*10.6*		"	*10.0*		*106*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*11.0*		"	*10.0*		*110*	*80-120*			
Matrix Spike (2070169-MS1)		**Source: W207270-01**		Prepared & Analyzed: 07/29/02						
Benzene	9.94	0.500	ug/l	10.0	ND	99.4	75-125			
Bromobenzene	9.65	0.500	"	10.0	ND	96.5	75-125			
Bromodichloromethane	11.1	0.500	"	10.0	ND	111	75-125			
n-Butylbenzene	8.84	0.500	"	10.0	ND	88.4	75-125			
sec-Butylbenzene	10.1	0.500	"	10.0	ND	101	75-125			
tert-Butylbenzene	9.11	0.500	"	10.0	ND	91.1	75-125			
Carbon tetrachloride	11.3	0.500	"	10.0	ND	113	75-125			
Chlorobenzene	9.89	0.500	"	10.0	ND	98.9	75-125			
Chloroethane	8.02	0.500	"	10.0	ND	80.2	75-125			
Chloroform	11.5	0.140	"	10.0	ND	115	75-125			
Chloromethane	1.62	0.600	"	10.0	ND	16.2	75-125			L
2-Chlorotoluene	10.3	0.500	"	10.0	ND	103	75-125			
4-Chlorotoluene	9.55	0.500	"	10.0	ND	95.5	75-125			
Dibromochloromethane	12.2	0.500	"	10.0	ND	122	75-125			
1,2-Dibromo-3-chloropropane	10.8	0.390	"	10.0	ND	108	75-125			
1,2-Dibromoethane	11.5	0.380	"	10.0	ND	115	75-125			
1,2-Dichlorobenzene	9.39	0.500	"	10.0	ND	93.9	75-125			
1,3-Dichlorobenzene	9.92	0.500	"	10.0	ND	99.2	75-125			
1,4-Dichlorobenzene	9.48	0.500	"	10.0	ND	94.8	75-125			
Dichlorodifluoromethane	3.98	0.500	"	10.0	ND	39.8	75-125			L
1,1-Dichloroethane	11.7	0.500	"	10.0	ND	117	75-125			
1,2-Dichloroethane	12.4	0.500	"	10.0	ND	124	75-125			
1,1-Dichloroethene	9.51	0.500	"	10.0	ND	95.1	75-125			
cis-1,2-Dichloroethene	9.85	0.500	"	10.0	ND	98.5	75-125			
trans-1,2-Dichloroethene	9.49	0.500	"	10.0	ND	94.9	75-125			
1,2-Dichloropropane	13.1	0.500	"	10.0	ND	131	75-125			H
1,3-Dichloropropane	11.5	0.500	"	10.0	ND	115	75-125			
2,2-Dichloropropane	11.0	0.500	"	10.0	ND	110	75-125			

Great Lakes Analytical--Oak Creek

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Andrea Stathas, Project Manager

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Matrix Spike (2070169-MS1)	**Source: W207270-01**			Prepared & Analyzed: 07/29/02						
Di-isopropyl ether	10.1	5.00	ug/l	10.0	ND	101	75-125			
Ethylbenzene	9.30	0.500	"	10.0	ND	93.0	75-125			
Hexachlorobutadiene	8.74	5.00	"	10.0	ND	87.4	75-125			
Isopropylbenzene	10.0	0.500	"	10.0	ND	100	75-125			
p-Isopropyltoluene	8.14	0.500	"	10.0	ND	81.4	75-125			
Methylene chloride	10.7	0.530	"	10.0	ND	107	75-125			
Methyl tert-butyl ether	9.58	0.500	"	10.0	ND	95.8	75-125			
Naphthalene	8.03	2.00	"	10.0	ND	80.3	75-125			
n-Propylbenzene	9.92	0.500	"	10.0	ND	99.2	75-125			
1,1,2,2-Tetrachloroethane	12.2	0.350	"	10.0	ND	122	75-125			
Tetrachloroethene	8.95	0.500	"	10.0	ND	89.5	75-125			
Toluene	10.0	0.500	"	10.0	ND	100	75-125			
1,2,3-Trichlorobenzene	8.43	2.00	"	10.0	ND	84.3	75-125			
1,2,4-Trichlorobenzene	9.18	2.00	"	10.0	ND	91.8	75-125			
1,1,1-Trichloroethane	11.6	0.500	"	10.0	ND	116	75-125			
1,1,2-Trichloroethane	11.5	0.160	"	10.0	ND	115	75-125			
Trichloroethene	10.1	0.500	"	10.0	ND	101	75-125			
Trichlorofluoromethane	11.2	0.500	"	10.0	ND	112	75-125			
1,2,4-Trimethylbenzene	7.71	1.00	"	10.0	ND	77.1	75-125			
1,3,5-Trimethylbenzene	9.12	1.00	"	10.0	ND	91.2	75-125			
Vinyl chloride	10.2	0.170	"	10.0	ND	102	75-125			
Total Xylenes	29.2	0.500	"	30.0	ND	97.3	75-125			
Surrogate: 1-Cl-4-FB (ELCD)	*11.4*		"	*10.0*		*114*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*9.99*		"	*10.0*		*99.9*	*80-120*			
Matrix Spike Dup (2070169-MSD1)	**Source: W207270-01**			Prepared & Analyzed: 07/29/02						
Benzene	10.4	0.500	ug/l	10.0	ND	104	75-125	4.52	20	
Bromobenzene	10.4	0.500	"	10.0	ND	104	75-125	7.48	20	
Bromodichloromethane	11.5	0.500	"	10.0	ND	115	75-125	3.54	20	
n-Butylbenzene	9.93	0.500	"	10.0	ND	99.3	75-125	11.6	20	
sec-Butylbenzene	11.0	0.500	"	10.0	ND	110	75-125	8.53	20	
tert-Butylbenzene	10.0	0.500	"	10.0	ND	100	75-125	9.31	20	
Carbon tetrachloride	12.0	0.500	"	10.0	ND	120	75-125	6.01	20	
Chlorobenzene	10.6	0.500	"	10.0	ND	106	75-125	6.93	20	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Matrix Spike Dup (2070169-MSD1)		**Source: W207270-01**		Prepared & Analyzed: 07/29/02						
Chloroethane	7.67	0.500	ug/l	10.0	ND	76.7	75-125	4.46	20	
Chloroform	12.2	0.140	"	10.0	ND	122	75-125	5.91	20	
Chloromethane	2.02	0.600	"	10.0	ND	20.2	75-125	22.0	20	LH
2-Chlorotoluene	11.3	0.500	"	10.0	ND	113	75-125	9.26	20	
4-Chlorotoluene	10.4	0.500	"	10.0	ND	104	75-125	8.52	20	
Dibromochloromethane	12.4	0.500	"	10.0	ND	124	75-125	1.63	20	
1,2-Dibromo-3-chloropropane	10.8	0.390	"	10.0	ND	108	75-125	0.00	20	
1,2-Dibromoethane	11.4	0.380	"	10.0	ND	114	75-125	0.873	20	
1,2-Dichlorobenzene	10.3	0.500	"	10.0	ND	103	75-125	9.24	20	
1,3-Dichlorobenzene	10.7	0.500	"	10.0	ND	107	75-125	7.57	20	
1,4-Dichlorobenzene	10.3	0.500	"	10.0	ND	103	75-125	8.29	20	
Dichlorodifluoromethane	4.79	0.500	"	10.0	ND	47.9	75-125	18.5	20	L
1,1-Dichloroethane	12.2	0.500	"	10.0	ND	122	75-125	4.18	20	
1,2-Dichloroethane	13.4	0.500	"	10.0	ND	134	75-125	7.75	20	H
1,1-Dichloroethene	10.1	0.500	"	10.0	ND	101	75-125	6.02	20	
cis-1,2-Dichloroethene	10.2	0.500	"	10.0	ND	102	75-125	3.49	20	
trans-1,2-Dichloroethene	10.1	0.500	"	10.0	ND	101	75-125	6.23	20	
1,2-Dichloropropane	14.0	0.500	"	10.0	ND	140	75-125	6.64	20	H
1,3-Dichloropropane	11.4	0.500	"	10.0	ND	114	75-125	0.873	20	
2,2-Dichloropropane	11.7	0.500	"	10.0	ND	117	75-125	6.17	20	
Di-isopropyl ether	10.6	5.00	"	10.0	ND	106	75-125	4.83	20	
Ethylbenzene	10.1	0.500	"	10.0	ND	101	75-125	8.25	20	
Hexachlorobutadiene	9.98	5.00	"	10.0	ND	99.8	75-125	13.2	20	
Isopropylbenzene	11.0	0.500	"	10.0	ND	110	75-125	9.52	20	
p-Isopropyltoluene	9.14	0.500	"	10.0	ND	91.4	75-125	11.6	20	
Methylene chloride	11.1	0.530	"	10.0	ND	111	75-125	3.67	20	
Methyl tert-butyl ether	9.60	0.500	"	10.0	ND	96.0	75-125	0.209	20	
Naphthalene	9.12	2.00	"	10.0	ND	91.2	75-125	12.7	20	
n-Propylbenzene	10.8	0.500	"	10.0	ND	108	75-125	8.49	20	
1,1,2,2-Tetrachloroethane	12.2	0.350	"	10.0	ND	122	75-125	0.00	20	
Tetrachloroethene	9.76	0.500	"	10.0	ND	97.6	75-125	8.66	20	
Toluene	10.7	0.500	"	10.0	ND	107	75-125	6.76	20	
1,2,3-Trichlorobenzene	9.26	2.00	"	10.0	ND	92.6	75-125	9.38	20	
1,2,4-Trichlorobenzene	9.88	2.00	"	10.0	ND	98.8	75-125	7.35	20	

Great Lakes Analytical--Oak Creek

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Matrix Spike Dup (2070169-MSD1)	**Source: W207270-01**			Prepared & Analyzed: 07/29/02						
1,1,1-Trichloroethane	12.5	0.500	ug/l	10.0	ND	125	75-125	7.47	20	
1,1,2-Trichloroethane	11.8	0.160	"	10.0	ND	118	75-125	2.58	20	
Trichloroethene	11.3	0.500	"	10.0	ND	113	75-125	11.2	20	
Trichlorofluoromethane	12.0	0.500	"	10.0	ND	120	75-125	6.90	20	
1,2,4-Trimethylbenzene	8.47	1.00	"	10.0	ND	84.7	75-125	9.39	20	
1,3,5-Trimethylbenzene	10.4	1.00	"	10.0	ND	104	75-125	13.1	20	
Vinyl chloride	11.0	0.170	"	10.0	ND	110	75-125	7.55	20	
Total Xylenes	32.3	0.500	"	30.0	ND	108	75-125	10.1	20	
Surrogate: 1-Cl-4-FB (ELCD)	*10.0*		"	*10.0*		*100*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			

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Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

WDNR Volatile Organic Compounds by Method 8021 (Blanks) - Quality Control
Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Blank (2070169-BLK1)				Prepared & Analyzed: 07/29/02						
Benzene	ND	0.500	ug/l							
Bromobenzene	ND	0.500	"							
Bromodichloromethane	ND	0.500	"							
n-Butylbenzene	ND	0.500	"							
sec-Butylbenzene	ND	0.500	"							
tert-Butylbenzene	ND	0.500	"							
Carbon tetrachloride	ND	0.500	"							
Chlorobenzene	ND	0.500	"							
Chloroethane	ND	0.500	"							
Chloroform	1.04	0.140	"							
Chloromethane	ND	0.600	"							
2-Chlorotoluene	ND	0.500	"							
4-Chlorotoluene	ND	0.500	"							
Dibromochloromethane	ND	0.500	"							
1,2-Dibromo-3-chloropropane	ND	0.390	"							
1,2-Dibromoethane	ND	0.380	"							
1,2-Dichlorobenzene	ND	0.500	"							
1,3-Dichlorobenzene	ND	0.500	"							
1,4-Dichlorobenzene	ND	0.500	"							
Dichlorodifluoromethane	ND	0.500	"							
1,1-Dichloroethane	ND	0.500	"							
1,2-Dichloroethane	ND	0.500	"							
1,1-Dichloroethene	ND	0.500	"							
cis-1,2-Dichloroethene	ND	0.500	"							
trans-1,2-Dichloroethene	ND	0.500	"							
1,2-Dichloropropane	ND	0.500	"							
1,3-Dichloropropane	ND	0.500	"							
2,2-Dichloropropane	ND	0.500	"							
Di-isopropyl ether	ND	5.00	"							
Ethylbenzene	ND	0.500	"							
Hexachlorobutadiene	ND	5.00	"							
Isopropylbenzene	ND	0.500	"							
p-Isopropyltoluene	ND	0.500	"							
Methylene chloride	ND	0.530	"							

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WDNR Volatile Organic Compounds by Method 8021 (Blanks) - Quality Control

Great Lakes Analytical--Oak Creek

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2070169 - EPA 5030B (P/T)										
Blank (2070169-BLK1)				Prepared & Analyzed: 07/29/02						
Methyl tert-butyl ether	ND	0.500	ug/l							
Naphthalene	ND	2.00	"							
n-Propylbenzene	ND	0.500	"							
1,1,2,2-Tetrachloroethane	ND	0.350	"							
Tetrachloroethene	ND	0.500	"							
Toluene	ND	0.500	"							
1,2,3-Trichlorobenzene	ND	2.00	"							
1,2,4-Trichlorobenzene	ND	2.00	"							
1,1,1-Trichloroethane	ND	0.500	"							
1,1,2-Trichloroethane	ND	0.160	"							
Trichloroethene	ND	0.500	"							
Trichlorofluoromethane	ND	0.500	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
Vinyl chloride	ND	0.170	"							
Total Xylenes	ND	0.500	"							
Surrogate: 1-Cl-4-FB (ELCD)	*11.3*		"	*10.0*		*113*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.5*		"	*10.0*		*105*	*80-120*			
LCS (2070169-BS1)				Prepared & Analyzed: 07/29/02						
Surrogate: 1-Cl-4-FB (ELCD)	*10.6*		*ug/l*	*10.0*		*106*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*11.0*		"	*10.0*		*110*	*80-120*			
Matrix Spike (2070169-MS1)			**Source: W207270-01**	Prepared & Analyzed: 07/29/02						
Surrogate: 1-Cl-4-FB (ELCD)	*11.4*		*ug/l*	*10.0*		*114*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*9.99*		"	*10.0*		*99.9*	*80-120*			
Matrix Spike Dup (2070169-MSD1)			**Source: W207270-01**	Prepared & Analyzed: 07/29/02						
Surrogate: 1-Cl-4-FB (ELCD)	*10.0*		*ug/l*	*10.0*		*100*	*80-120*			
Surrogate: 1-Cl-4-FB (PID)	*10.0*		"	*10.0*		*100*	*80-120*			

Great Lakes Analytical--Oak Creek

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

140 East Ryan Road
Oak Creek, Wisconsin 53154

Email: info@glalabs.com
(414) 570-9460 FAX (414) 570-9461

Sigma Environmental Services, Inc.	Project: 6515	
220 E. Ryan Road	Project Number: 6515	**Reported:**
Oak Creek WI, 53154	Project Manager: Jim Westerman	08/01/02 10:30

Notes and Definitions

QC	The result for one or more quality control measurements associated with this sample did not meet the laboratory and/or source method acceptance criteria.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
L	This quality control measurement is below the laboratory established limit.
H	This quality control measurement is above the laboratory established limit.

Andrea Stathas

Andrea Stathas, Project Manager

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

1380 Busch Parkway
Buffalo Grove, IL 60089-4505
(847) 808-7766
FAX (847) 808-7772

140 E. Ryan Road
Oak Creek, WI 53154
(414) 570-9460
FAX (414) 570-9461

Client: Sigma Env.
Address: 220 E. Ryan Rd.
Oak Creek, WI 53154
Report to:
E-mail: Jim Westerman
Phone #: (414) 768-7144
Fax #: ( )

Bill To: Same
Address:
State & Program:
Phone #: ( )
Fax #: ( )

TAT: (STD) 4 DAY 3 DAY 2 DAY 1 DAY < 24 HRS.
☐ YES - TAT is critical
☐ NO - TAT is not critical
DATE RESULTS NEEDED:
Received on Ice: YES ☐ NO ☐
Temperature Upon Receipt: on ice
Deliverable Package: ☐ STD ☐ Other
Delivery Method: GLA ☐ Client ☒ Shipped ☐ Courier ☐

Project Name: Norman Getz Property
Project #/PO#: 6515
Sampler: David Dailey, Tom McCoy

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DRY-WEIGHT CORRECT RESULTS	DO NOT DRY-WEIGHT CORRECT RESULTS	ANALYSIS TYPE: VOC-8021	SAMPLE CONTROL: CRACKED/BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	LABORATORY ID NUMBER
1 mw-1 PID:	7-26-02	9:30	GW		3					3			X				W207270-01
2 mw-2 PID:		11:15															-02
3 mw-3 PID:		11:30															-03
4 mw-4 PID:		11:45															-04
5 mw-5 PID:		12:00															-05
6 mw-6 PID:		9:45															-06
7 mw-7 PID:		10:00															-07
8 mw-8 PID:		10:15															-08
9 mw-9 PID:		10:30															-09
10 mw-10 PID:		11:00															-10

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	7/26/02 1310	[signature]	7-26-02 1310				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS:

GREAT LAKES ANALYTICAL

CHAIN OF CUSTODY REPORT

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Deliverable Package: ☐ STD ☐ Other
Delivery Method: GLA ☐ Client ☐ Shipped ☐ Courier ☐

Project Name: Norman Getz Prop.
Project #/PO#: 6515
Sampler: David Daley, Tom McCoy

FIELD ID, LOCATION	DATE COLLECTED	TIME COLLECTED	SAMPLE MATRIX	# of Bottles Preservative Used: MeOH	NaHSO4	HCl	HNO3	H2SO4	NaOH	NONE	TOTAL # OF BOTTLES	DRY-WEIGHT CORRECT RESULTS	DO NOT DRY-WEIGHT CORRECT RESULTS	VOC-8021	ANALYSIS TYPE	SAMPLE CONTROL: CRACKED-BROKEN	SAMPLE CONTROL: IMPROPERLY SEALED	LABORATORY ID NUMBER
1 PZ-1 PID:	7-26-02	10:45	GW			3					3			X				W207270-11
2 Dup. PID:			GW			3					3			X				-12
3 Equip. PID:						3					3			X				-13
4 Trip PID:						1					1			X				-14
5 PID:																		
6 PID:																		
7 PID:																		
8 PID:																		
9 PID:																		
10 PID:																		

RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME
[signature]	7/26/02 1810	[signature]	7-26-02 1310				
RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME	RELINQUISHED	DATE / TIME	RECEIVED	DATE / TIME

COMMENTS: