

Environmental Site Assessment – Supplemental Soil Investigation



Shady Oak Property
4312 Shady Oak Road and
4292 Oak Drive Lane
Minnetonka, MN 55343

Prepared for:
**City of Minnetonka and Hennepin
County**

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Table of Contents

| | |
|---|------------|
| 1.0 PURPOSE AND SCOPE | 1-1 |
| 1.1 Scope of Services..... | 1-1 |
| 2.0 SITE DESCRIPTION..... | 2-1 |
| 2.1 Current Use of Adjoining Properties | 2-2 |
| 2.2 Physical Setting | 2-2 |
| 2.2.1 Topography | 2-2 |
| 2.2.2 Geology | 2-2 |
| 2.2.3 Hydrogeology | 2-2 |
| 3.0 PREVIOUS INVESTIGATIONS..... | 3-1 |
| 3.1.1 2007 Phase I ESA Report | 3-1 |
| 3.1.2 2014 Wenck Phase I Report..... | 3-1 |
| 3.1.3 2014 Wenck Phase II Report | 3-2 |
| 3.1.4 2016 Wenck Phase I Report..... | 3-3 |
| 4.0 INVESTIGATION METHODS AND PROCEDURES | 4-6 |
| 4.1 Field Investigation Rationale..... | 4-6 |
| 4.2 Soil investigation..... | 4-6 |
| 5.0 INVESTIGATION RESULTS | 5-8 |
| 5.1 Soil | 5-8 |
| 5.1.1 Geology | 5-8 |
| 5.1.2 Soil Analytical Results..... | 5-8 |
| 5.2 Groundwater | 5-9 |
| 5.2.1 Hydrogeology | 5-9 |
| 6.0 DISCUSSION..... | 6-1 |
| 6.1 Soil Discussion..... | 6-1 |
| 7.0 CONCLUSIONS | 7-1 |

Table of Contents (Cont.)

FIGURES

- 1 Site Location
- 2 Site Aerial Detail
- 3 Boring Locations
- 4 Site Survey with Boring Locations

TABLES

- 1 Soil Analytical Results Summary

APPENDICES

- A Previous Phase II Environmental Results
- B Soil Boring Logs
- C Laboratory Reports and Chain-of Custody Documentation

1.0 Purpose and Scope

Wenck Associates, Inc. (Wenck) was authorized by Hennepin County Contaminated Lands Unit and The City of Minnetonka to conduct this Supplemental Soil Investigation Environmental Site Assessment (ESA) of the property located at 4312 Shady Oak Road, Minnetonka, Hennepin County, Minnesota (the Subject Property).

The purpose of the Supplemental Soil Investigation ESA activities described herein was to determine the scope and extent of contaminated soils on the Subject Property that may have been impacted by hazardous substances, pollutants or contaminants at concentrations of potential concern. The potential for such impact was identified during completion of a recent Phase II ESA for the Subject Property.

1.1 SCOPE OF SERVICES

This following scope of services was completed for this Supplemental Soil Investigation ESA:

- ▲ Cleared public and private utilities;
- ▲ Completed eight (8) soil borings to assess current soil conditions;
- ▲ Observed and collected soil samples recovered from the soil borings, created soil boring logs, and field-screened soil for the presence of volatile organics with a photoionization detector (PID);
- ▲ Collected a total of eight (8) soil samples for analysis of diesel range organics (DRO), volatile organic compounds (VOCs), polynuclear aromatic hydrocarbons (PAHs), Resource Conservation and Recovery Act (RCRA) metals and/or polychlorinated biphenyls (PCBs);
- ▲ Prepared this report.

2.0 Site Description

The Subject Property is located in a commercial/residential area in the City of Minnetonka, MN.

| | | |
|--|--|--|
| Site Address/Location | Address: 4312 Shady Oak Road County: Hennepin Addition: Ginkels Oakridge Addition | City: Minnetonka State: Minnesota Lot: 020 Block: 002 |
| Property Information | Size: 1.6 acres Property Identification Number: 23-117-22-42-0057 | |
| Improvements | The Subject Property has one commercial/retail building with multiple tenant spaces, a paved parking area on the west side of the commercial building, and greenspace. | |
| Building Information | Size: Approximately 25,680-square feet | Year of Construction: 1951 |
| Use of the Property | Description: The building on the 4312 Parcel is two levels. The upper level tenant spaces are accessed from the east side of the building off Shady Oak Road and the lower level tenant spaces are accessed by a walkout basement level on the west side of the building. Current Use: The current tenants at the 4312 Parcel consist of Ammo Craft (4314), Tara's Chalet Pizza (4316), Sewing and Alterations (4318), 3x3 Fit (4330), P3 Hair Design (4332), E-Cigs and Accessories (4334), Mission Animal Hospital (4338), Second Hand Hounds (4340 and 4334B), Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems – HVAC (4340B and 4342B) Past Use: Historic commercial tenants include machine shops, a dry cleaner, HVAC/building contractors, pizza restaurant and various commercial tenants | |
| Ownership and Operation of the Property | Current Ownership & Operation: The 4312 Shady Oak Road parcel is currently owned by the City of Minnetonka. | |

The Subject Property location is depicted in Figure 1. A Site Detail Map showing the Subject Property is provided in Figure 2.

2.1 CURRENT USE OF ADJOINING PROPERTIES

The following land uses were noted on adjoining properties:

| Direction | Description |
|-----------|---|
| North | Oak Drive Lane and residential properties |
| South | Vacant Lot and commercial properties |
| East | Shady Oak Road and commercial properties |
| West | Residential properties |

2.2 PHYSICAL SETTING

2.2.1 Topography

The Subject Property is generally level and is at an elevation of approximately 920-930 feet above mean sea level. Site surface drainage is to the southwest. Historic development may have included grading or filling of the Subject Property to improve the location for construction and drainage.

2.2.2 Geology

Published references describe the surficial geology at the Subject Property as outwash consisting of sand, loamy sand, and gravel (University of Minnesota, 1989).

Surficial bedrock in the vicinity of the Subject Property consists of the Platteville and Glenwood Formations at a depth of approximately 100-150 feet (University of Minnesota, 1989).

2.2.3 Hydrogeology

The general direction of regional groundwater flow in the area of the Subject Property is noted in Minnesota Department of Natural Resources County Geologic Atlas to be to the west towards the Mississippi River. However, local conditions may vary due to surface water features, perched groundwater conditions or artificially created drainage systems. Depth to regional groundwater is noted to be approximately 25 feet below ground surface (MN Department of Natural Resources, 1989).

3.0 Previous Investigations

The following previous environmental reports prepared for the Subject Property were reviewed:

- ▲ *Phase I Environmental Site Assessment, Ring Property, 4312-4342 Shady Oak Road, Minnetonka, Minnesota, report prepared for Hennepin County, report prepared by Service Engineering Group, report dated September 21, 2007 (2007 Phase I ESA Report).*
- ▲ *Phase I Environmental Site Assessment, Shady Oak Property, 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Minnesota, report prepared for the City of Minnetonka, report prepared by Wenck Associates Inc., report dated November 6, 2014 (2014 Phase I ESA Report);*
- ▲ *Phase II Environmental Site Assessment, Shady Oak Property, 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Minnesota, report prepared for the City of Minnetonka, report prepared by Wenck Associates Inc., Report dated November 13, 2014 (2014 Phase I ESA Report).*
- ▲ *Phase I Environmental Site Assessment, Shady Oak Property, 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Minnesota, report prepared for the City of Minnetonka, report prepared by Wenck Associates Inc., report dated June 27, 2016 (2016 Phase I ESA Report);*

3.1.1 2007 Phase I ESA Report

The 2007 Phase I ESA Report noted that the tenants at the 4312 Parcel consisted of Knight Machining, Ammocraft Firearms Supply, Chalet Pizza, James Gang Hair, a woodworking shop, Shady Oak Vet, and Practical Systems HVAC. The Phase I notes that these tenants or like-industries, have occupied the 4312 Parcel since at least the 1980's. Prior to that time, other light commercial or service industry tenants have periodically occupied the site including county offices, an antique store, restaurant, furniture store, hardware store, sheet metal workings, dentist office, and a drive in cleaners. The 2007 report notes the cleaners was drop-off only as shown in a 1975 City Directory reviewed by Service Engineering Group.

The 2007 Report stated that there were no identified recognized environmental conditions. The 2007 Report does not mention the septic tank and cesspool system at the Subject Property.

The dry-cleaner noted in City of Minnetonka files for the 2014 Wenck Phase I report is not the same dry-cleaner noted in the 2007 Phase I ESA Report and 1975 City Directory.

3.1.2 2014 Wenck Phase I Report

The 2014 Wenck Phase I Report indicated that the Subject Property consisted of one commercial/retail building with multiple tenant spaces, a single-family residence, a paved parking area on the west side of the commercial building, and greenspace. At the time the 2014 Wenck Phase I Report was prepared the Subject Property was owned by E H Ring Credit Shelter (4312 Parcel) and EGR Premier Properties (4292 Parcel).



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According to the 2014 Wenck Phase I Report the tenants at the 4312 Parcel consisted of Ammo Craft (4314), Tara's Chalet Pizza (4316), Sewing and Alterations (4318), 3x3 Fit (4330), P3 Hair Design (4332), E-Cigs and Accessories (4334), Mission Animal Hospital (4338), Second Hand Hounds (4340 and 4334B), Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems - HVAC (4340B and 4342B).

The 2014 Wenck Phase I Report identified the following RECs relative to the Subject Property:

- ▲ "The presence of historical machine shop and drycleaner tenants at the Subject Property that handled various oils and solvents and operated at the same time as the former septic and cesspool system is considered an REC.
- ▲ Heavy oil staining from a leaking compressor located in the northwest corner of the building in a vacant tenant space is considered an REC."

The 2014 Wenck Phase I Report identified the following items that constituted an business environmental risk at the Subject Property:

- ▲ "There is a domestic well located at the Subject Property that is currently not in use on the 4292 Parcel and two wells not in use on the 4312 parcel. According to the Minnesota Department of Health, a well must be in use, be under a maintenance permit, or be sealed by a licensed contractor.
- ▲ A former septic system may still be present on the Subject Property at the 4312 Parcel on the west of the building. Septic systems no longer in use should be abandoned/decommissioned in accordance with local regulations. A septic system was not observed on the 4292 Parcel; however, a septic system may also be present on the 4292 Parcel, based on the similar time of construction."

3.1.3 2014 Wenck Phase II Report

The 2014 Wenck Phase II consisted of the advancement of five (5) soil borings to depths of 15 to 30 feet below ground surface (bgs) to assess current soil and groundwater conditions at the Subject Property. Soil samples were collected from five of the borings and analyzed for diesel range organics (DRO), volatile organic compounds (VOCs), and Resource Conservation and Recovery Act (RCRA) metals; four (4) samples for polynuclear aromatic hydrocarbons (PAHs); and one (1) soil samples for PCBs. Groundwater samples were collected from three borings and analyzed for DRO and VOCs. Two soil vapor samples were also collected and analyzed for VOCs using method TO-15. Additionally, Wenck collected three PCB wipe samples from areas where staining was observed in the basement of the 4312 Building noted in the Wenck 2014 Phase I ESA.

During the Phase II investigation fill soils consisting of predominately brown to black silty sand with gravel were encountered to depths of approximately 5 feet bgs in the west parking lot area of the 4312 Building. The fill soil was generally underlain by brown silty sand with gravel. Groundwater was encountered in each boring drilled on the Subject Property at depths of approximately 10 to 20 feet bgs.

The soil investigation results from the 2014 Wenck Phase II compared detected concentrations of RCRA metals, VOCs, PAHs and PCBs to the Minnesota Pollution Control

Agency's Tier 1 Residential and Tier 2 Industrial Soil Reference Values (SRVs). Additionally, MPCA Tier 1 Soil Leaching Values (SLVs) were referenced to evaluate the potential risk to groundwater at the Subject Property from the soil-to-groundwater leaching pathway.

DRO was identified in three of the six soil samples collected at concentrations ranging from 494 mg/kg to 9.99 mg/kg. Various RCRA metals were detected in all of the samples collected and analyzed; however, detected concentrations of metals do not exceed the MPCA SLVs, Residential SRVs, or Industrial SRVs. VOCs were not identified in soil samples above their respective laboratory method reporting limits in any of the soil samples collected. In one of the two samples collected and analyzed for PCBs, total PCBs were detected at 0.265 mg/kg above the MPCA SLV of 0.1 mg/kg. Various PAHs were detected in the soil samples. However, none of the samples were identified to exceed the MPCA Residential or Industrial SRVs or MPCA SLVs for individual PAHs or the BaP equivalent concentrations calculated.

The groundwater analytical data collected during the 2014 Wenck Phase II compared detected concentrations of VOCs to the Minnesota Department of Health's (MDH) and MPCA's Health Risk Limits (HRL) and MDH Health Based Values (HBVs) guidance values to assess potential human health risks from exposures to chemicals in groundwater. There are no established HRLs or HBVs for DRO and GRO.

The VOC tetrachloroethene (PCE), a common drycleaner solvent, was detected in two groundwater samples collected at the Subject Property at concentrations ranging from 1.81 ug/L to 1.23 ug/L. Both detections were below the MPCA HRL/MDH HBV of 5.0 ug/L. DRO was detected in all three temporary wells at 21.2 ug/L, 314 ug/L, and 267 ug/L.

The soil vapor data collected during the 2014 Wenck Phase II was compared to the MPCA's Intrusion Screening Values (ISVs) for Vapor Intrusion Risk. Various VOCs were detected above the method detection limits in the soil vapor samples collected from the Subject Property. PCE was detected at 130 ug/m³ above 10x the Residential ISV, but below 10x the Industrial ISV (*The Residential ISV for PCE as of May 2016 is revised to 3.3 ug/m³*) and trichloroethene (TCE) was detected at 20 ug/m³ equal to 10x the Residential ISV, but below 10x the Industrial ISV (*The Residential ISV for TCE as of May 2016 is revised to 2.1 ug/m³*). The VOC 1,3-butadiene was detected above 10x the Residential ISV in both samples; however, the 2014 Wenck Phase II concluded there was no potential source of 1,3-butadiene and the detection was not indicative of a release at the Subject Property. None of the other detected VOCs exceed 10x the MPCA Residential or Industrial ISVs.

PCBs were detected in one of the wipe samples at a concentration of 25.1 ug/100 cm² from the oil stained concrete under the leaking compressor in the vacant storage space in the northwest corner of the basement of the building on the 4312 Parcel.

The text, tables, and figures portions of the Phase II ESA report are included in **Appendix A**.

3.1.4 2016 Wenck Phase I Report

The Subject Property has one commercial/retail building with multiple tenant spaces, a single-family residence, a paved parking area on the west side of the commercial building,

and greenspace. Both structures were originally built in 1951. Two additions were completed on the commercial structure by 1964.

The building on the 4312 Parcel is two levels and the upper level tenant spaces are accessed from the east side of the building off Shady Oak Road and the lower level tenant spaces are accessed by a walkout basement level on the west side of the building. The current tenants on the upper level consist of Ammo Craft (4314), Chalet Pizza (4316) and Sewing and Alterations (4318); the remaining spaces on the upper level are vacant. The lower level tenant spaces are occupied by Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems – HVAC (4340B and 4342B).

Wenck reviewed building permits and records for the Subject Property at the City of Minnetonka. Dahl's Cleaners and Laundry were noted in the City file as a drycleaner tenant at the Subject Property at the 4312 Parcel building and the file notes a drycleaning machine was installed in 1962.

Wenck also obtained hazardous waste files from Hennepin County Environmental. The records did not reveal any evidence of a release of hazardous materials at the Property or any major handling violations. Wenck reviewed records for Knight Machining, Inc., Mid-Tool, Liberty Tool, Practical Systems, Clean Flo Labs, and Shady Oak Veterinary Clinic.

Chemicals formerly used by Knight Machine included relatively small quantities of Stoddard Solvent, used oil, and metal working fluid. Waste generated by the Shady Oak Veterinary included Used X-Ray film, x-ray fixer, and bio-waste. Clean Flo labs reported to generate approximately 5-gallons per year of mixed lab chemicals. A letter for Mid-Tool from the MCPA noted that Mid-Tool does not generate any waste, but uses cutting oil and Stoddard Solvent in their operations. The chemicals are reportedly consumed in the process or recycled back to the machines.

City files show that the commercial structure on the 4312 Parcel was originally constructed with a septic system consisting of a 10' wide x 40' long x 8' in height septic tank and four 675-gallon concrete cesspools.

Wenck observed a vent pipe on the west side of the building on the 4312 parcel. This pipe may be associated with a former fuel tank or the former septic system.

The Subject Property was identified on the following reviewed regulatory databases in the GeoSearch™ Radius Report: Resource Conservation & Recovery Act – Generator Facilities (RCRAGR05) and Federal Facility Registry System (FRSMN) and Hazardous Waste Generator Sites (HWGS) databases due to a hazardous waste generator licenses. Other nearby sites were noted in the Geosearch report for various databases.

Wenck observed two wells on the 4312 parcel. One well is located under a stairwell in the Practical Systems space and the other well is located outside off the sidewalk north of the Ammo Craft tenant space. Wenck also observed a well in the basement of the residence at the 4292 parcel.

"This Phase I ESA has identified no recognized environmental conditions (RECs) relative to the Subject Property except for the following:

- ▲ The presence of historical machine shop and drycleaner tenants at the Subject Property that handled various oils and solvents and operated at the same time as the former septic and cesspool system is considered an REC.
- ▲ A Phase II Subsurface Investigation completed at the Subject Property identified DRO, VOCs and PCBs above MPCA and MDH established risk criteria in the soil, groundwater, concrete and soil vapor at the Subject Property. The identified release to multiple materials at the Subject Property is considered a REC.

This Phase I ESA has not identified any controlled recognized environmental conditions (CRECs) or historical recognized environmental conditions (HRECs) relative to the Subject Property.

Although not considered RECs, CRECs, or HRECs; this ESA has revealed the following items that constitute business environmental risks:

- ▲ There is a domestic well located at the Subject Property that is currently not in use on the 4292 Parcel and two wells not in use on the 4312 parcel. According to the Minnesota Department of Health, a well must be in use, be under a maintenance permit, or be sealed by a licensed contractor.
- ▲ A former septic system may still be present on the Subject Property at the 4312 Parcel on the west of the building. Septic systems no longer in use should be abandoned/decommissioned in accordance with local regulations. A septic system was not observed on the 4292 Parcel; however, a septic system may also be present on the 4292 Parcel, based on the similar time of construction."

4.0 Investigation Methods and Procedures

4.1 FIELD INVESTIGATION RATIONALE

The objective of this investigation was to investigate the scope and extent of soil impacts present at the Subject Property identified in the Wenck Phase II ESA.

Procedures for soil activities followed Wenck's standard operating procedures. Standard operating procedures were adhered to with no deviations during the implementation of the work. Methods and procedures are described below.

4.2 SOIL INVESTIGATION

The soil investigation activities were conducted on May 12, 2016. Investigation activities included the advancement of eight hollow-stem auger borings by Northern Technology, LLC (NTI). All borings were advanced to 31 feet below grade surface (bgs). The boring locations were selected to evaluate subsurface conditions in specific locations to provide good spatial coverage of the site, and to evaluate environmental conditions of the Subject Property. Proposed boring locations were adjusted based on the presence of underground or overhead utilities. The locations of underground utilities were verified prior to drilling to ensure the safe advancement of each boring. The locations of the borings are shown on **Figure 3**.

Soil was collected by NTI from a two-inch diameter, two-foot long split-spoon sampler used in conducting SPT sampling. Upon reaching each interval, the nature of the recovered soil was assessed to conduct soil classification and observed for evidence of potential contamination (i.e., odors, staining, fill material, etc.).

Soil samples were collected from the split-spoon sampler by hand using clean dedicated nitrile gloves and placed into dedicated sealable polyethylene storage bags. Vapor headspace readings were collected using a photoionization detector (PID) equipped with a 10.6 eV source lamp calibrated to an isobutylene gas standard. Soil samples from each boring were collected in dedicated glassware, placed in a cooler with ice and submitted under chain-of-custody control to Test America Laboratories, Inc. in Minneapolis, MN for laboratory analysis.

The boring location rationale and analytical parameters sampled for soil are as follows:

| Boring ID | Rationale | Sample Depth | Laboratory Analysis |
|-----------|--|--------------|------------------------------------|
| SB-1 | Sample soil for potential impacts related to the former septic system. | 0-1.5' | DRO, VOCs, PAHs, RCRA Metals, PCBs |
| SB-2 | Sample soil for potential impacts related to the former septic system. | 2-3.5' | DRO, VOCs, PAHs, RCRA Metals, PCBs |
| SB-3 | Sample soil for potential impacts related to the former septic system. | 4.5-6' | DRO, VOCs, PAHs, RCRA Metals, PCBs |

| | | | |
|------|---|--------|------------------------------------|
| SB-4 | Sample soil for potential impacts related to the leaking compressor. | 2-3.5' | DRO, VOCs, PAHs, RCRA Metals, PCBs |
| SB-5 | Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill. | 2-3.5' | DRO, VOCs, PAHs, RCRA Metals, PCBs |
| SB-6 | Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill. | 2-3.5' | DRO, VOCs, PAHs, RCRA Metals, PCBs |
| SB-7 | Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill. | 2-3.5' | DRO, VOCs, PAHs, RCRA Metals, PCBs |
| SB-8 | Sample soil for potential impacts related to the leaking compressor, former drycleaner and potential impacts from fill. | 4.5-6' | DRO, VOCs, PAHs, RCRA Metals, PCBs |

5.0 Investigation Results

5.1 SOIL

5.1.1 Geology

Wenck encountered approximately four feet of fill soils consisting of mainly dark brown to black silty sand with gravel on the Subject Property with approximately 10 feet of fill in boring SB-8 on the south side of the building. In general, the fill is underlain primarily by brown silty sand with gravel in borings SB-1 through SB-4 and brown to grey sandy clays in borings SB-5 through SB-8. Lenses of organic clay ranging from one inch to two feet in thickness were noted in SB-6 through SB-8 from 9-15 feet below grade. Soil boring logs are included in **Appendix B**.

Published references describe the surficial geology at the Subject Property as outwash consisting of sand, loamy sand, and gravel (University of Minnesota, 1989). Surficial bedrock in the vicinity of the Subject Property consists of the Platteville and Glenwood Formations at a depth of approximately 100-150 feet (University of Minnesota, 1989).

5.1.2 Soil Analytical Results

Soil investigation data compared detected concentrations of RCRA metals, VOCs, PAHs and PCBs to the Minnesota Pollution Control Agency's Tier 1 Residential and Tier 2 Industrial Soil Reference Values (SRVs). Additionally, MPCA Tier 1 Soil Leaching Values (SLVs) were referenced to evaluate the potential risk to groundwater at the Subject Property from the soil-to-groundwater leaching pathway. There are no established MPCA SRVs or SLVs for DRO.

Field Screening

A vapor headspace reading was detected at 11.6 parts per million (ppm) in sample SB-7 (2-3.5') via field screening by PID. Vapor headspace readings for VOCs were not detected above background concentrations via field screening by PID in any of the other soil borings. Vapor headspace readings and field observations are included on the soil boring logs in **Appendix B**.

DRO

DRO was detected in all eight of the soil samples collected and analyzed for DRO. Detections ranged from 0.425 mg/kg in sample SB-4 (2-3.5') to 215 mg/kg in sample SB-7 (2-3.5'). DRO was detected above 100 mg/kg in samples SB-3 (4.5-6') at 108 mg/kg, SB-6 (2-3.5') at 170 mg/kg, and SB-7 (2-3.5') at 215 mg/kg. There is no established limit for DRO in the MPCA SLVs or SRVs.

RCRA Metals

Five of the eight RCRA metals were detected in the eight samples collected and analyzed for RCRA metals with at least three metals identified in each sample. However, detected concentrations of metals do not exceed the MPCA SLVs, Residential SRVs, or Industrial SRVs.

VOCs

PCE was detected at 0.245 mg/kg in sample SB-3 (4.5-6'). No other VOCs were detected above their respective laboratory method reporting limits in any of the other seven soil samples collected and analyzed for VOCs. The detection of PCE exceeds the MPCA SLV, but does not exceed the Residential SRV or Industrial SRV.

PCBs

PCBs were not detected in any of the eight soil samples collected and analyzed for PCBs.

PAHs

Various PAHs were detected above the method reporting limit in six of the eight soil samples collected and analyzed for PAHs. None of the samples were identified to exceed the MPCA Residential or Industrial SRVs or MPCA SLVs for individual PAHs.

Soil sample results are summarized in **Table 1**. Laboratory reports and supporting chain-of-custody documentation are included in **Appendix C**.

5.2 GROUNDWATER

5.2.1 Hydrogeology

Groundwater was encountered in each boring drilled on the Subject Property. Groundwater was encountered at approximately 13 feet below ground surface in SB-2 through SB-4 located at a lower elevation on the west side of the building. Groundwater was encountered at approximately 25 feet below grade in borings SB-5 through SB-8 which were drilled on the west side of the building starting at a higher elevation. Groundwater was also encountered at 25 feet below grade in SB-1 which also appears to be at slightly higher elevation.

The general direction of regional groundwater flow in the area of the Subject Property is noted in Minnesota Department of Natural Resources County Geologic Atlas to be to the west towards the Mississippi River. However, local conditions may vary due to surface water features, perched groundwater conditions or artificially created drainage systems. Depth to regional groundwater is noted to be approximately 25 feet below ground surface (MN Department of Natural Resources, 1989).

6.0 Discussion

6.1 SOIL DISCUSSION

The detection of DRO in SB-3 (4.5-6'), SB-6 (2-3.5) and SB-7 (2-3.5) over 100 mg/kg indicates that impacts are concentrated in the surficial fill soil in the northeastern and central portion of the Subject Property but low-level impacts are also present in the fill soil across the Subject Property, along with PCE and PCBs exceeding the MPCA SLV. The lack of further detections of PCBs in any of the soil borings indicates that the extent of PCB contamination appears to be limited to the vicinity of boring GP-1A (0-2'). With the soil detections of PCBs and PCE above the MPCA SLV and the multiple detections of DRO in fill over 100 mg/kg, the future redevelopment of the Subject Property and soil management should be conducted under an approved MPCA Response Action Plan.

The MPCA document "Best Management Practices for the Off-Site Reuse of Unregulated Fill," dated February 2012, defines unregulated fill as excess soil in which a release of contaminants has been identified at concentrations less than the MPCA's most conservative risk-based values. The criteria for unregulated fill are described as the following:

- ▲ Soil free from solid waste, debris, asbestos containing material, visual staining, and chemical odor;
- ▲ Organic vapors less than 10 ppm as measured by a PID;
- ▲ For petroleum impacted soil, less than 100 mg/kg DRO/GRO;
- ▲ For contaminants detected in soil, less than the MPCA's Residential SRVs and MPCA Tier 1 SLVs.

Wenck recommends removal of the former septic system components as part of the proposed redevelopment. Additional assessment of soil may be necessary at the time of the removal of the former septic system components.

7.0 Conclusions

Based on the field observations and laboratory analysis of the additional soil samples collected and analyzed from the Subject Property and the previous findings, Wenck submits the following conclusions and recommendations:

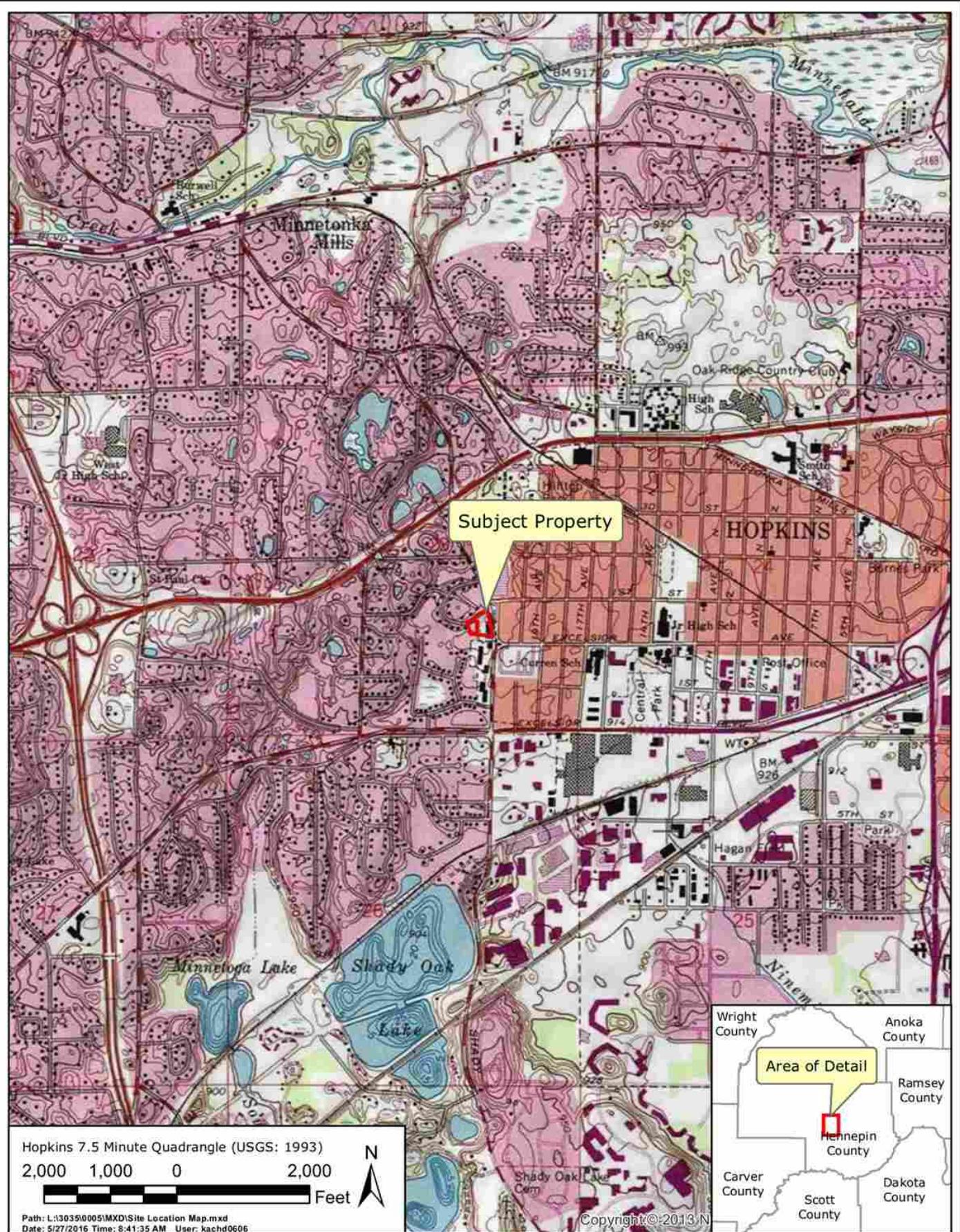
1. Enroll the Subject Property in the MPCA Voluntary Investigation and Cleanup (VIC) Program and Petroleum Brownfields (PB) Program;
2. Apply for a No Association Determination related to the elevated detection of PCBs and PCE in soil, PCE and acetone in groundwater, and PCE and TCE in soil vapor from the VIC Program. The submittal will include a proposed actions letter for the proposed use of the Subject Property.
3. When development plans are known, submit a Response Action Plan to the MPCA Voluntary Brownfield Programs (VIC and the Petroleum Brownfield Program) for review and approval.
4. Apply for a Non-tank Closure Letter from the Petroleum Brownfields Program for the low-level detections of DRO in soil and groundwater at the Subject Property.
5. Wenck recommends the City remove and dispose of the former septic system as part of future redevelopment as an environmental development response action.
6. Wenck recommends collecting bulk samples of the concrete stained with the PCB containing oil prior to demolition to determine if the concrete will require special handling.



Mark G. Davidson, PG (MN)
Geologist

Adam P. Zobel
Senior Environmental Project Manager

Figures



4132 SHADY OAK ROAD

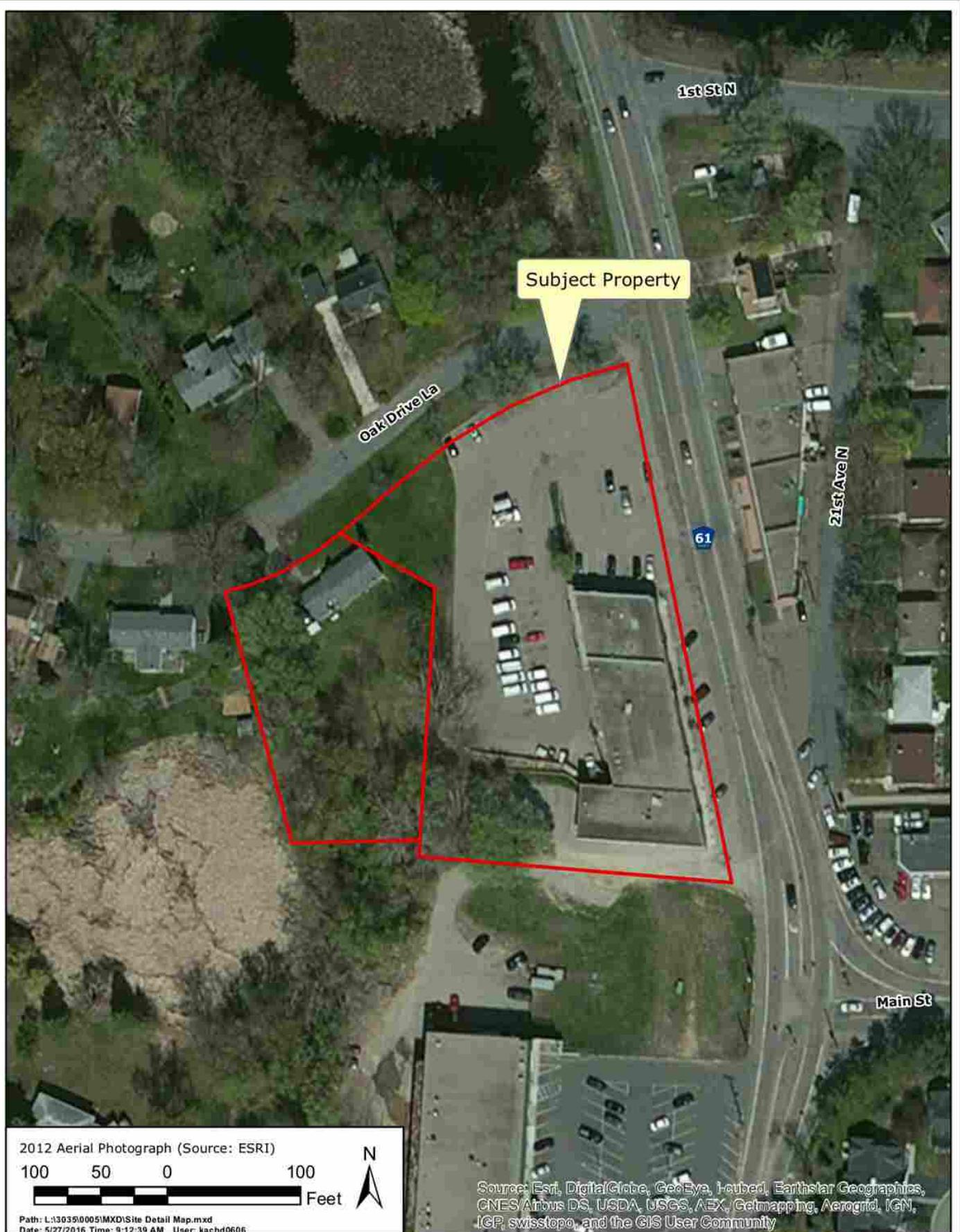
Site Location Map

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MAY 2016

Figure 1



2012 Aerial Photograph (Source: ESRI)

100 50 0 100

Feet



Path: L:\3039\0005\MXD\Site Detail Map.mxd
Date: 5/27/2016 Time: 9:12:39 AM User: kachd0606

Source: Esri, DigitalGlobe, GeoEye, i-cubed, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

4132 SHADY OAK ROAD

Site Detail Map



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Figure 2



4132 SHADY OAK ROAD

Sampling Locations

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MAY 2016

Figure 3



4132 SHADY OAK ROAD

Historic Sampling Locations



Responsive partner. Exceptional outcomes.

MAY 2016

Figure 4

Tables

Table 1
Soil Analytical Results Summary
4312 Shady Oak Road
Minnetonka, MN
Wenck Project No. 3035-0005
June 2016

| Analyte | Units | MPCA SLV | MPCA Residential SRV | MPCA Industrial SRV | GP-1 (10-15') 10/30/2014 | GP-1A (0-2') 10/30/2014 | GP-2 (10-15') 10/30/2014 | GP-3 (0-2') 10/30/2014 | GP-4 (4-5') 10/30/2014 | GP-5 (3-5') 10/30/2014 | SB-1 (0-1.5) 05/12/2016 | SB-2 (2-3.5) 05/12/2016 | SB-3 (4.5-6) 05/13/2016 | SB-4 (2-3.5) 05/13/2016 | SB-5 (2-3.5) 05/12/2016 | SB-6 (2-3.5) 05/12/2016 | SB-7 (2-3.5) 05/12/2016 | SB-8 (4.5-6) 05/13/2016 |
|--|-------|------------------|----------------------|---------------------|--------------------------|-------------------------|--------------------------|------------------------|------------------------|------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| Diesel Range Organics | | | | | | | | | | | | | | | | | | |
| Diesel Range Organics (DRO) | mg/Kg | NE | NE | NE | <7.10 | 494 | <6.01 | 39.7 | <7.03 | 9.99 | 10.2 | 24.9 | 108 | 42.5 | 28.1 | 170 | 215 | 33.2 |
| Volatile Organic Compounds | | | | | | | | | | | | | | | | | | |
| Tetrachloroethene | mg/Kg | 0.04 | 72 | 131 | ND | ND | ND | ND | ND | ND | <0.108 | <0.106 | 0.245 | <0.106 | <0.114 | <0.110 | <0.113 | <0.105 |
| Polynuclear Aromatic Hydrocarbons | | | | | | | | | | | | | | | | | | |
| Anthracene | mg/Kg | 1300 | 7880 | 45400 | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 |
| Benz[a]anthracene | mg/Kg | NE | NE | NE | <0.0104 | <0.102 | <0.0107 | 0.158 | 0.0264 | NA | <0.106 | 0.259 | 0.342 | 0.289 | 0.125 | <0.413 | 0.136 | <0.103 |
| Benz[b]fluoranthene | mg/Kg | NE | NE | NE | <0.0104 | 0.202 | <0.0107 | 0.25 | 0.0456 | NA | <0.106 | 0.463 | 0.484 | 0.482 | 0.322 | <0.413 | 0.222 | 0.139 |
| Benz[a]pyrene | mg/Kg | 1.4 | 2 | 3 | <0.0104 | 0.133 | <0.0107 | 0.2 | 0.0317 | NA | <0.106 | 0.331 | 0.342 | 0.356 | 0.173 | <0.413 | 0.170 | <0.103 |
| 2-Methylnaphthalene | mg/Kg | 100 | 369 | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 | |
| Naphthalene | mg/Kg | 4.5 | 10 | 28 | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 |
| Acenaphthylene | mg/Kg | NE | NE | NE | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 |
| Acenaphthene | mg/Kg | 81 | 1200 | 5260 | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 |
| Benz[g,h,i]perylene | mg/Kg | NE | NE | NE | <0.0104 | 0.131 | <0.0107 | 0.132 | 0.0205 | NA | <0.106 | 0.222 | 0.171 | 0.284 | 0.182 | <0.413 | 0.121 | 0.110 |
| Indeno[1,2,3-cd]pyrene | mg/Kg | NE | NE | NE | <0.0104 | <0.102 | <0.0107 | <0.106 | 0.0177 | NA | <0.106 | 0.185 | 0.125 | 0.203 | 0.138 | <0.413 | <0.115 | <0.103 |
| Fluorene | mg/Kg | 110 | 850 | 4120 | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 |
| Pyrene | mg/Kg | 440 | 890 | 5800 | <0.0104 | 0.115 | <0.0107 | 0.133 | 0.0343 | NA | <0.106 | 0.466 | 0.601 | 0.493 | 0.205 | <0.413 | 0.246 | 0.267 |
| Phenanthrene | mg/Kg | NE | NE | NE | <0.0104 | <0.102 | <0.0107 | <0.106 | 0.0374 | NA | <0.106 | 0.141 | 0.197 | 0.113 | <0.111 | <0.413 | <0.115 | 0.157 |
| Chrysene | mg/Kg | NE | NE | NE | <0.0104 | 0.143 | <0.0107 | 0.196 | 0.0364 | NA | <0.106 | 0.299 | 0.369 | 0.321 | 0.168 | <0.413 | 0.157 | <0.103 |
| Benz[k]fluoranthene | mg/Kg | NE | NE | NE | <0.0104 | <0.102 | <0.0107 | <0.106 | 0.0182 | NA | <0.106 | 0.144 | 0.143 | 0.144 | 0.115 | <0.413 | <0.115 | <0.103 |
| Fluoranthene | mg/Kg | 670 | 1080 | 6800 | <0.0104 | 0.152 | <0.0107 | 0.129 | 0.0425 | NA | <0.106 | 0.466 | 0.553 | 0.423 | 0.194 | <0.413 | 0.216 | 0.165 |
| Dibenz[a,h]anthracene | mg/Kg | NE | NE | NE | <0.0104 | <0.102 | <0.0107 | <0.106 | <0.0121 | NA | <0.106 | <0.101 | <0.0982 | <0.105 | <0.111 | <0.413 | <0.115 | <0.103 |
| BaP Equivalent Calculation | mg/Kg | 1.4 | 2 | 3 | <0.0104 | 0.155 | <0.0107 | 0.243 | 0.043 | NA | <0.106 | 0.439 | 0.455 | 0.471 | 0.244 | <0.413 | 0.207 | 0.014 |
| Polychlorinated Biphenyls | | | | | | | | | | | | | | | | | | |
| PCB-1260 | mg/Kg | 0.1 | 1.2 | 8 | NA | 0.104 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1254 | mg/Kg | 0.1 | 1.2 | 8 | NA | 0.161 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1016 | mg/Kg | 0.1 | 1.2 | 8 | NA | <0.0532 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1268 | mg/Kg | 0.1 | 1.2 | 8 | NA | <0.0532 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1322 | mg/Kg | 0.1 | 1.2 | 8 | NA | <0.0532 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1221 | mg/Kg | 0.1 | 1.2 | 8 | NA | <0.0532 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1248 | mg/Kg | 0.1 | 1.2 | 8 | NA | <0.0532 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| PCB-1248 | mg/Kg | 0.1 | 1.2 | 8 | NA | <0.0532 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| Polychlorinated biphenyls, Total | mg/Kg | 0.1 | 1.2 | 8 | NA | 0.265 | NA | <0.0538 | NA | NA | <0.0539 | <0.0525 | <0.0524 | <0.0514 | <0.0575 | <0.0548 | <0.0569 | <0.0508 |
| RCRA Metals | | | | | | | | | | | | | | | | | | |
| Chromium | mg/Kg | 36 (VI) | 87 (VII) | 850 (VI) | 6.69 | 5.59 | 11.7 | 10.9 | 17.2 | 13.2 | 16.2 | 12.6 | 14.0 | 11.0 | 13.0 | 14.8 | 13.3 | 10.4 |
| Cadmium | mg/Kg | 8.8 | 25 | 200 | <0.785 | <3.21 | <0.838 | <0.821 | <1.73 | <0.861 | <0.992 | <1.91 | <1.76 | <0.981 | <1.13 | <0.911 | <2.24 | <2.02 |
| Barium | mg/Kg | 1700 | 1100 | 18000 | 13.7 | 145 | 28.7 | 43.2 | 164 | 58.6 | 36.7 | 42.5 | 36.7 | 34.1 | 36.0 | 56.3 | 48.4 | 26.0 |
| Silver | mg/Kg | 7.9 | 160 | 1300 | <0.785 | <3.21 | <0.838 | <0.821 | <1.73 | <0.861 | <0.992 | <1.91 | <1.76 | <0.981 | <1.13 | <0.911 | <2.24 | <2.02 |
| Selenium | mg/Kg | 2.6 ^b | 160 | 1300 | <5.89 | <24.1 | <6.28 | <6.16 | <13.0 | <6.45 | <1.04 | <1.04 | <1.04 | <1.01 | <1.13 | <0.963 | <1.01 | <0.898 |
| Lead | mg/Kg | 2700 | 300 | 700 | <3.92 | <16.1 | <4.19 | 4.85 | 30.9 | 11.1 | <4.96 | 16.3 | 8.80 | 9.69 | <5.67 | 9.38 | 15.8 | <10.1 |
| Arsenic | mg/Kg | 5.8 | 9 | 20 | 1.4 | 2.76 | 1.92 | 2.47 | 4.19 | 3.57 | 2.16 | 2.56 | 1.82 | 2.29 | 2.29 | 2.32 | 2.85 | 2.11 |
| Mercury | mg/Kg | 3.3 | 0.5 | 1.5 | <0.0183 | <0.0204 | 0.0211 | <0.0202 | <0.0208 | <0.0186 | <0.0214 | <0.0211 | <0.0203 | <0.0192 | <0.0212 | <0.0199 | <0.0214 | 0.0979 |

NA = Not Analyzed

mg/kg = PPM

BOLD = The sample exceeded one or more action limits for that parameter

MPCA = Minnesota Pollution Control Agency

SRV = Soil Reference Value

SLV = Soil Leaching Value

BaP Equivalent = Benzo(a)pyrene equivalent calculation (MPCA September 2006 Version)

NE = Not Established

RCRA = Resource Conservation and Recovery Act

VOCs = Volatile Organic Compounds

PAHs = Polynuclear Aromatic Hydrocarbons

DRO = Diesel Range Organics

PCBs = Polychlorinated Biphenyls

Table 2
Groundwater Analytical Results Summary
4312 Shady Oak Road
Minnetonka, MN
Wenck Project No. 5170-0001/3035-0005
November 2014/June 2016

| Analyte | Units | Basis | MDH/MPCA Drinking Water Criteria/HRL/MDH HBV | GP-2 10/30/2014 | GP-4 10/30/2014 | GP-5 10/30/2014 |
|--|-------|-------|---|--------------------|--------------------|--------------------|
| Diesel Range Organics (DRO) | | | | | | |
| Diesel Range Organics (DRO) | ug/L | Total | NE | 21.2 | 314 | 267 |
| Volatile Organic Compounds (VOCs) | | | | | | |
| Tetrachloroethene | ug/L | Total | 4 | 1.81 | 1.23 | <1.00 |
| Acetone | ug/L | Total | 4000 | 12.2 | <10.0 | <10.0 |

MPCA = Minnesota Pollution Control Agency

MDH = Minnesota Department of Health

HRL = Health Risk Limit

HBV = Health Based Value

ug/L = parts per billion

NE = Not Established

Table 3
Soil Vapor Results Summary
4312 Shady Oak Road
Minnetonka, MN
Wenck Project No. 5170-0001/3035-0001
November 2014/June 2016

| Analyte | 10x MPCA Residential ISV | 10x MPCA Industrial ISV | SV-1 10/30/2014 2:00 PM | SV-2 10/30/2014 4:33 PM |
|--|--------------------------------|----------------------------|-------------------------------|-------------------------------|
| Volatile Organic Compounds EPA Method TO-15 (ug/m³) | | | | |
| 1,1,1-Trichloroethane | 50000 | 100000 | ND | 3.1 |
| 1,2,4-Trimethylbenzene | 70 | 200 | 2 | ND |
| 1,3-Butadiene | 3 | 27 | 4.4 | 11 |
| Acetone | 310000 | 870000 | 23 | 38 |
| Benzene | 46 | 450 | 6.8 | 7 |
| Cyclohexane | 60000 | 200000 | 0.73 | 2 |
| Ethylbenzene | 41 | 390 | 4.4 | 3.3 |
| m,p-Xylene | 1000 | 3000 | 13 | 6.3 |
| Methyl Ethyl Ketone | 50000 | 100000 | 5.4 | 11 |
| n-Heptane | NE | NE | 4.4 | 5.4 |
| n-Hexane | 20000 | 60000 | 6.3 | 7.3 |
| Propylene | 30000 | 80000 | 28 | 79 |
| Styrene | 10000 | 30000 | 0.91 | ND |
| Tetrachloroethene | 33 | 330 | 130 | ND |
| Toluene | 50000 | 100000 | 32 | 20 |
| Trichloroethene | 20 | 60 | 20 | ND |
| Trichlorofluoromethane | 7000 | 20000 | 1.4 | ND |
| Xylene, o- | 1000 | 3000 | 4.9 | 3 |

EPA = Environmental Protection Agency

MPCA = Minnesota Pollution Control Agency

PRP = Petroleum Remediation Program

ISV = Intrusion Screening Value

BOLD Parameter Exceeds Action Level

VOCs = Volatile Organic Compounds

NE = Not Established

Appendix A

Soil Boring Logs



LOG OF BORING SB-1

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|-----------------|-------------------------------------|---|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample During Drilling |
| DESCRIPTION | | | |
| 0 | 930 | FB | Asphalt |
| | | SW | CLAYEY SAND, red-brown, with gravel, moist (fill). |
| 5 | 925 | SC | SANDY CLAY, dark grey, soft, with gravel, moist. |
| | | SW | CLAYEY SAND, red-brown, with gravel, moist. |
| 10 | 920 | SC | Medium stiff. |
| | | SW | |
| 15 | 915 | SC | SANDY CLAY, grey-brown, some gravel, medium stiff, moist. |
| | | SC | |
| 20 | 910 | SC | SANDY CLAY, grey, some gravel, stiff, very moist to wet. |
| | | SC | |
| 25 | 905 | SW | SILTY SAND, brown, fine to medium grained, wet. |
| | | CL | SANDY CLAY, grey, fine grained, medium stiff, wet. |
| 30 | | | |



LOG OF BORING SB-2

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

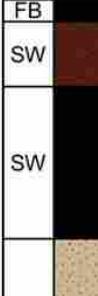
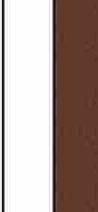
| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|-----------------|---|---|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample Water Levels During Drilling |
| DESCRIPTION | | | |
| 0 - 930 | FB | SILTY SAND, dark brown, with gravel, moist (fill). | Water Level |
| 5 - 925 | SW | SILTY SAND, red-brown, traces of gravel, moist. | |
| 10 - 920 | SW | SILTY SAND, red-brown, with coarse gravel to cobble, moist. | |
| 15 - 915 | SW | SILTY SAND, brown, fine to medium grained, with gravel, wet. | |
| 20 - 910 | SW | SILTY SAND, brown, coarse grained some gravel, wet. | |
| 25 - 905 | SW | SILTY SAND, brown, coarse grained, some gravel and clay, wet. | |
| 30 | SW | SAND, Well Graded, brown, some gravel and clay, wet. | |
| | | | Sample Recovery (%) |
| | | | PID Result (ppm) |
| | | | Analytical Sample |
| | | | REMARKS |



LOG OF BORING SB-3

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|---------------------|---|---|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample Water Levels During Drilling |
| DESCRIPTION | | | |
| 0 - 930 | FB |  | Asphalt CLAYEY SAND, red-brown, with gravel, moist (fill). SILTY SAND, black, trace of ash, moist (fill). |
| 5 - 925 | SW |  | SILTY SAND, tan, fine grained, moist. With gravel Fine to medium grained. |
| 10 - 920 | SW |  | |
| 15 - 915 | SW |  | SILTY SAND, brown, coarse grained, with gravel, wet. |
| 20 - 910 | SW |  | |
| 25 - 905 | SW |  | |
| 30 | | | Coarse gravel. |
| Water Level | Sample Recovery (%) | PID Result (ppm) | Analytical Sample |
| | 100 | 1.5 | |
| | 40 | 2.8 | |
| | 60 | 3.0 | |
| | 40 | 0.2 | |
| | 40 | 0.2 | |
| | 10 | 0.3 | |
| | 80 | 0.3 | |
| | 60 | 0.2 | |
| | 60 | 0.2 | |
| | 80 | 0.3 | |



LOG OF BORING SB-4

Responsive partner. Exceptional outcomes.

(Page 1 of 1)

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | | | Date Started : 5/12/16 | Date Completed : 5/12/16 | Hole Diameter : 6" | Drilling Method : Hollow Stem Auger | Sampling Method : Split Spoon | Ground Elevation : 930 ft. ASL |
|--|-----------------|--------------|--|------------------------|--------------------------|---------------------|-------------------------------------|-------------------------------|--------------------------------|
| Minnetonka, MN | | | | | | | | Logged By : KJJ | Drilling Company : NTI |
| Project # 3035-0005 | | | | | | | | Checked By : MGD | Driller(s) : Carl and Dan |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type | Water Levels | Water Level | Sample Recovery (%) | PID Result (ppm) | Analytical Sample | REMARKS |
| DESCRIPTION | | | | | | | | | |
| 0 - 930 | FB | | Asphalt | | | 100 | 0.2 | | |
| | SW | | SILTY SAND, black, with gravel, moist (fill). | | | 40 | 0.3 | | |
| | SW | | SILTY SAND, dark brown, with gravel, trace concrete, moist (fill). | | | 40 | 0.3 | | |
| 5 - 925 | | | SILTY SAND, light brown, moist. | | | 20 | 0.2 | | |
| | | | Medium grained with gravel. | | | 30 | 0.3 | | |
| 10 - 920 | SW | | Medium to coarse grained with gravel. | | | 10 | 0.2 | | |
| | | | Coarse gravel. | | | 60 | 0.2 | | |
| 15 - 915 | | | SILTY SAND, brown, coarse grained, small pockets of clay, wet. | | | 50 | 0.3 | | |
| | | | Medium to coarse grained with gravel. | | | 60 | 0.2 | | |
| 20 - 910 | SW | | | | | 100 | 0.2 | | |
| 25 - 905 | | | | | | | | | |
| 30 | | | Coarse gravel. | | | | | | |



LOG OF BORING SB-5

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|-----------------|-------------------------------------|--|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample Water Levels During Drilling |
| | | DESCRIPTION | |
| 0 | 930 | FB | Asphalt |
| | | SW | CLAYEY SAND, red-brown, traces of gravel, moist (fill). |
| | | SW | SILTY SAND, brown, medium grained, with gravel, moist. |
| 5 | 925 | SW | SILTY SAND, dark brown, with gravel, moist. |
| | | | SANDY CLAY, red-brown, fine grained, medium stiff, moist. |
| 10 | 920 | | Very moist to wet. |
| 15 | 915 | SC | Wet |
| 20 | 910 | | |
| 25 | 905 | CH | CLAY, grey, stiff, some sand, moist. |
| 30 | | | |
| | | | Water Level |
| | | | Sample Recovery (%) |
| | | | PID Result (ppm) |
| | | | Analytical Sample |
| | | | REMARKS |



LOG OF BORING SB-6

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|-----------------|-------------------------------------|--|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample Water Levels During Drilling |
| | | | DESCRIPTION |
| 0 - 930 | FB | | <p>Asphalt</p> <p>SILTY SAND, dark brown to black, with gravel, some clay, moist (fill).</p> |
| 5 - 925 | SW | | <p>SILTY SAND, brown, medium to coarse grained, with gravel, moist.</p> |
| 10 - 920 | SW | | <p>CLAYEY SAND, black, moist, slight organic odor.</p> |
| 15 - 915 | CL | | <p>SANDY CLAY, grey-brown, soft, traces of gravel, moist.</p> <p>Medium stiff.</p> |
| 20 - 910 | | | |
| 25 - 905 | SW | | <p>CLAYEY SAND, brown, with gravel, wet.</p> |
| 30 - | | | |



LOG OF BORING SB-7

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|-----------------|-------------------------------------|--|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample Water Levels During Drilling |
| DESCRIPTION | | | |
| 0 | 930 | FB | Asphalt |
| | | SW | SILTY SAND, brown, with gravel, some clay, moist (fill). |
| | | SW | SILTY SAND, dark brown to black, with gravel, trace ash, moist. |
| 5 | 925 | SW | SILTY SAND, red-brown, with gravel , moist. |
| | | SC | SANDY CLAY, red-brown, some gravel, medium stiff, moist. Stiff with trace gravel. |
| 10 | 920 | SC | SANDY CLAY, black, traces of gravel, moist, slight organic odor. |
| 15 | 915 | SC | SANDY CLAY, dark grey, traces of gravel, medium stiff, moist. |
| 20 | 910 | SC | SANDY CLAY, red-brown, fine grained, traces of gravel, medium stiff, moist. |
| 25 | 905 | SW | CLAYEY SAND, brown, fine to coarse grained, some gravel, wet. Coarse gravel. |
| 30 | | | |



LOG OF BORING SB-8

(Page 1 of 1)

Responsive partner. Exceptional outcomes.

| Shady Oak Road Supplemental Soil Investigation 4312 Shady Oak Road | | Date Started : 5/12/16 | Ground Elevation : 930 ft. ASL |
|--|-----------------|---|--|
| Minnetonka, MN | | Date Completed : 5/12/16 | Drilling Company : NTI |
| Project # 3035-0005 | | Hole Diameter : 6" | Driller(s) : Carl and Dan |
| | | Drilling Method : Hollow Stem Auger | Logged By : KJJ |
| | | Sampling Method : Split Spoon | Checked By : MGD |
| Depth in Feet | Surf. Elev. 930 | USCS GRAPHIC | Sample Type Analytical Soil Sample During Drilling |
| | | DESCRIPTION | |
| 0 - 930 | FB | SILTY SAND, dark brown, with gravel, moist (fill). Trace Ash | Water Level |
| 5 - 925 | SW | Trace clay. | Sample Recovery (%) |
| 10 - 920 | SW | SILTY SAND, light brown, some gravel, moist. | PID Result (ppm) |
| 15 - 915 | SW | CLAYEY SAND, brown, some gravel, moist. | Analytical Sample |
| 20 - 910 | SC | SANDY CLAY, brown, traces of gravel, moist. Black lens with organics | REMARKS |
| 25 - 905 | SC | SANDY CLAY, brown, with gravel, moist. Higher sand content, tan color. | |
| 30 - | SW | SILTY SAND, brown, coarse grained, with gravel, small pockets of clay, wet. | |
| | SC | SILTY SAND, tan, fine to medium grained, some gravel, wet. | |

WENCK

Engineers, Scientists, Business Professionals

LOG OF BORING GP-1

(Page 1 of 1)

City of Minnetonka
Site Investigation
4312 Shady Oak Road

Project # B5170-0001

Date Started : 10/30/14 Ground Elevation :
 Date Completed : 10/30/14 Northing Coord. :
 Hole Diameter : 2" Easting Coord. :
 Drilling Method : Geoprobe Logged By : DJL
 Sampling Method : Dual Tube Checked By : DJL

| Depth in Feet | USCS | GRAPHIC | Sample Type <input checked="" type="checkbox"/> Analytical Soil Sample <input type="checkbox"/> Analytical Water Sample | Water Levels <input checked="" type="checkbox"/> After Drilling <input type="checkbox"/> During Drilling | Water Level | Sample Recovery (in) | PID Result (PPM) | Analytical Sample | Remarks |
|---------------|------|---------|---|--|-------------|----------------------|------------------|-------------------------------------|---|
| | | | | | | DESCRIPTION | | | |
| 0 | | | SILTY SAND with GRAVEL, brown, medium grained, moist, (Fill) | | | 28 | 0 | | PID reading for GP-1A (0-2') = 16.7 PPM |
| 5 | SM | | larger gravel and rocks 5 to 10 feet | | | 5 | 0 | | |
| 10 | SP | | SAND, Poorly Graded, brown, fine to medium grained, wet | | | 24 | 0 | <input checked="" type="checkbox"/> | |
| 15 | | | E.O.B. @ 15' | | | | | | |
| 20 | | | | | | | | | |
| 25 | | | | | | | | | |
| 30 | | | | | | | | | |

Notes: Refusal on two attempts at GP-1 location before getting beyond 2', likely resulting from septic tank. 0 to 2' sample of first refusal exhibited a possible petroleum odor - this sample was submitted for laboratory analysis (GP-1A).

| WENCK Engineers, Scientists, Business Professionals | | | LOG OF BORING GP-2 (Page 1 of 1) | | | | | |
|---|--|--|---|--|--|----------------------|------------------|-------------------|
| City of Minnetonka Site Investigation 4312 Shady Oak Road Project # B5170-0001 | | | Date Started : 10/30/14 Ground Elevation : Date Completed : 10/30/14 Northing Coord. : Hole Diameter : 2" Easting Coord. : Drilling Method : Geoprobe Logged By : DJL Sampling Method : Dual Tube Checked By : DJL | | | | | |
| Depth in Feet | | | Water Levels ▼ After Drilling ▽ During Drilling | | | | | |
| USCS | | | Water Level | | | | | |
| GRAPHIC | | | DESCRIPTION | | | Sample Recovery (in) | PID Result (PPM) | Analytical Sample |
| 0 | | | SANDY CLAY with GRAVEL, multi-colored, moist, (Fill) | | | 36 | 0 | |
| SC | | | | | | 3 | 0 | |
| 5 | | | SILTY SAND with GRAVEL & Rocks, multi-colored, wet, (Fill) | | | 20 | 0 | |
| 10 | | | | | | 49 | 0 | |
| SM | | | SANDY CLAY, brown, wet, (Fluvial) | | | | | |
| 15 | | | SILTY SAND, brown, fine to medium grained, wet, (Fluvial) | | | | | |
| SC | | | | | | | | |
| SM | | | E.O.B. @ 20' | | | | | |
| 20 | | | | | | | | |
| 25 | | | | | | | | |
| 30 | | | | | | | | |
| Notes: 1" PVC screen set at 10 to 20 feet for groundwater sample | | | | | | | | |

WENCK
Engineers, Scientists, Business Professionals

LOG OF BORING GP-3

(Page 1 of 1)

| City of Minnetonka Site Investigation 4312 Shady Oak Road Project # B5170-0001 | | | Date Started : 10/30/14 | Ground Elevation : | |
|---|------|---------|--|--|---|
| | | | Date Completed : 10/30/14 | Northing Coord. : | |
| | | | Hole Diameter : 2" | Easting Coord. : | |
| | | | Drilling Method : Geoprobe | Logged By : DJL | |
| | | | Sampling Method : Dual Tube | Checked By : DJL | |
| Depth in Feet | USCS | GRAPHIC | Sample Type | Water Levels | |
| | | | <input checked="" type="checkbox"/> Analytical Soil Sample <input type="checkbox"/> Analytical Water Sample | <input checked="" type="checkbox"/> After Drilling <input type="checkbox"/> During Drilling | |
| DESCRIPTION | | | | | |
| 0 | SM | | Water Level | Sample Recovery (in) | |
| 5 | SP | | | 24 | 0 |
| 10 | SM | | | 24 | 0 |
| 15 | | | | 21 | 0 |
| 20 | | | | | |
| 25 | | | | | |
| 30 | | | | | |
| Notes: | | | | | |

| WENCK Engineers, Scientists, Business Professionals | | | LOG OF BORING GP-4 | | | | | | |
|---|------|---------|---|---|-------------|----------------------|------------------|-------------------|---------|
| | | | (Page 1 of 1) | | | | | | |
| City of Minnetonka Site Investigation 4312 Shady Oak Road Project # B5170-0001 | | | Date Started : 10/30/14 | Ground Elevation : | | | | | |
| | | | Date Completed : 10/30/14 | Northing Coord. : | | | | | |
| | | | Hole Diameter : 2" | Easting Coord. : | | | | | |
| | | | Drilling Method : Geoprobe | Logged By : DJL | | | | | |
| | | | Sampling Method : Dual Tube | Checked By : DJL | | | | | |
| Depth in Feet | USCS | GRAPHIC | Sample Type ■ Analytical Soil Sample □ Analytical Water Sample | Water Levels ▼ After Drilling ▽ During Drilling | Water Level | Sample Recovery (in) | PID Result (PPM) | Analytical Sample | Remarks |
| | | | | | | | | | |
| 0 | SM | | SILTY SAND with GRAVEL, brown, fine to medium grained, moist, (Fill) | | | 28 | 0 | | |
| 5 | CL | | CLAYdark brown, wet, (Fill) | | | 24 | 0 | ■ | |
| 10 | SM | | SILTY SAND with GRAVEL, brown, fine to medium grained, moist | | | 15 | 0 | | |
| 15 | SP | | GRAVELLY SAND, Poorly Graded, brown, fine to medium grained, wet, (Fluvial) | ▽ | | 24 | 0 | | |
| 20 | SP | | GRAVELLY SAND, Poorly Graded, grey, fine to medium grained, wet, (Fluvial) | | | 24 | 0 | | |
| 20 | | | E.O.B. @ 20' | | | | | | |
| 25 | | | | | | | | | |
| 30 | | | | | | | | | |
| Notes: 1" PVC screen set at 6 to 16 feet for groundwater sample (hole collapsed) | | | | | | | | | |

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Engineers, Scientists, Business Professionals

LOG OF BORING GP-5

(Page 1 of 1)

City of Minnetonka
Site Investigation
4312 Shady Oak Road
Project # B5170-0001

Date Started : 10/30/14 Ground Elevation :
Date Completed : 10/30/14 Northing Coord. :
Hole Diameter : 2" Easting Coord. :
Drilling Method : Geoprobe Logged By : DJL
Sampling Method : Dual Tube Checked By : DJL

| Depth in Feet | USCS | GRAPHIC | Sample Type ■ Analytical Soil Sample □ Analytical Water Sample | Water Levels ▼ After Drilling ▽ During Drilling | Water Level | Sample Recovery (in) | PID Result (PPM) | Analytical Sample | Remarks | DESCRIPTION | |
|---------------|------|---------|---|---|-------------|----------------------|------------------|-------------------|---------|-------------|--|
| | | | | | | | | | | | |
| 0 | | | | | | | | | | | |
| SM | | | SILTY SAND with GRAVEL, dark brown, fine to medium grained, moist, (Fill) | | | 26 | 0 | | | | |
| OL | | | ORGANIC CLAY, dark brown, moist | | | 12 | 0 | | | | |
| SC | | | SANDY CLAY, brown, moist | | | 25 | 0 | | | | |
| SP | | | SAND, Poorly Graded with GRAVEL, brown, moist | | | 25 | 0 | | | | |
| SP | | | wet at 20' | | ▽ | 36 | 0 | | | | |
| SP | | | SAND, Poorly Graded, grey, wet | | | 20 | 0 | | | | |
| E.O.B. @ 30' | | | | | | | | | | | |

Notes: This location is approximately 10 feet higher in elevation than GP-1 through GP-4.

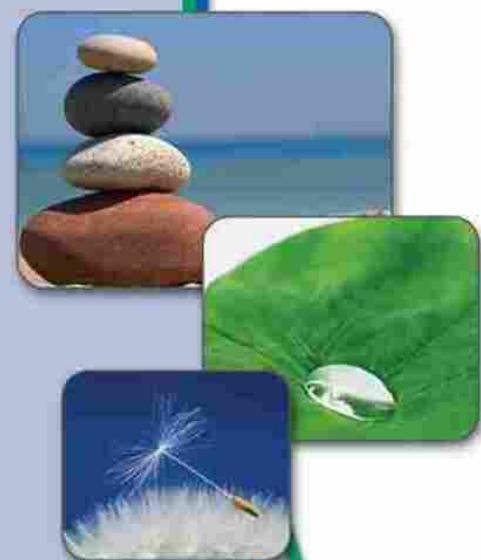
1" PVC screen set at 17 to 27 feet for groundwater sample

Appendix B

Laboratory Reports and Chain-of-Custody Documentation

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Cedar Falls

704 Enterprise Drive

Cedar Falls, IA 50613

Tel: (319)277-2401

TestAmerica Job ID: 310-80618-1

TestAmerica Sample Delivery Group: 3035-0005

Client Project/Site: SHADY OAK - MINNETONKA

Revision: 1

For:

Wenck Associates, Inc

1800 Pioneer Creek Center

Maple Plain, Minnesota 55359

Attn: Adam P Zobel

Authorized for release by:

5/26/2016 4:13:04 PM

Zach Bindert, Project Manager I

(319)277-2401

zach.bindert@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

| | |
|-----------------------------|----|
| Cover Page | 1 |
| Table of Contents | 2 |
| Case Narrative | 3 |
| Sample Summary | 5 |
| Detection Summary | 6 |
| Client Sample Results | 9 |
| Definitions | 35 |
| Surrogate Summary | 36 |
| QC Sample Results | 38 |
| QC Association | 49 |
| Chronicle | 54 |
| Certification Summary | 59 |
| Method Summary | 60 |
| Chain of Custody | 61 |
| Receipt Checklists | 63 |

Case Narrative

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Job ID: 310-80618-1

Laboratory: TestAmerica Cedar Falls

Narrative

**Job Narrative
310-80618-1**

Comments

This report was revised 5/26/2016. The client questioned a low RL for sample SB-4 (2-3.5) (310-80618-7). The laboratory determined that the initial weight of the sample was entered in the 3550B prep batch incorrectly resulting in a lower reporting limit.

Receipt

The samples were received on 5/14/2016 9:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.5° C.

Receipt Exceptions

DRO jar for SB-7 was labeled as SB-12 on the container. The client was contacted and confirmed the correct ID for this sample should be SB-7 (2-3.5)

SB-7 (2-3.5) (310-80618-3)

GC/MS VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM: The following samples was diluted due to the nature of the sample matrix: SB-5 (2-3.5) (310-80618-1), SB-6 (2-3.5) (310-80618-2), SB-7 (2-3.5) (310-80618-3), SB-1 (0-1.5) (310-80618-4), SB-2 (2-3.5) (310-80618-5) and SB-3 (4.5-6) (310-80618-6). Elevated reporting limits (RLs) are provided.

Method 8270D SIM: Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample: (310-80548-B-9-A MS). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) 8270D SIM: The following samples was diluted due to the nature of the sample matrix: SB-4 (2-3.5) (310-80618-7) and SB-8 (4.5-6) (310-80618-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA

Method 8082A: The laboratory control sample (LCS) for preparation batch 310-127604 and analytical batch 310-127842 recovered outside control limits for the following analytes: PCB-1016 and PCB-1260. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8082A: The surrogate recovery for the blank associated with preparation batch 310-127604 and analytical batch 310-127842 was outside the upper control limits. All associated sample surrogates fell within acceptance criteria; therefore, the data have been reported.

Method WI-DRO: The laboratory control sample duplicate (LCSD) for preparation batch 310-127730 and analytical batch 310-127812 recovered outside control limits for the following analytes: Diesel Range Organics (DRO). These analytes were biased low in the LCSD and all associated samples have been rerun for confirmation; therefore, the data have been reported.

Method WI-DRO: The %RPD of the laboratory control sample (LCS) and laboratory control standard duplicate (LCSD) for preparation batch 310-127730 recovered outside control limits for the following analytes: Diesel Range Organics (DRO).

Method WI-DRO: Significant peaks, readily distinguished from background, were detected in the following samples within five minutes after the end of the analytical window defined by the last component eluting in the Diesel Range Organics (DRO) mix (i.e., n-Octacosane): SB-5 (2-3.5) (310-80618-1), SB-6 (2-3.5) (310-80618-2), SB-7 (2-3.5) (310-80618-3), SB-1 (0-1.5) (310-80618-4), SB-2 (2-3.5) (310-80618-5), SB-3 (4.5-6) (310-80618-6), SB-4 (2-3.5) (310-80618-7) and SB-8 (4.5-6) (310-80618-8).

Method WI-DRO: The laboratory control sample duplicate (LCSD) for preparation batch 310-127730 and analytical batch 310-127986

Case Narrative

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Job ID: 310-80618-1 (Continued)

Laboratory: TestAmerica Cedar Falls (Continued)

recovered outside control limits for the following analytes: Diesel Range Organics (DRO). These analytes were biased low in the LCSD and all associated samples have been rerun for confirmation; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals

Method 6010C: The following samples was diluted due to the presence of an interferent: SB-7 (2-3.5) (310-80618-3), SB-2 (2-3.5) (310-80618-5), SB-3 (4.5-6) (310-80618-6) and SB-8 (4.5-6) (310-80618-8). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Sample Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 310-80618-1 | SB-5 (2-3.5) | Solid | 05/12/16 10:00 | 05/14/16 09:15 |
| 310-80618-2 | SB-6 (2-3.5) | Solid | 05/12/16 11:00 | 05/14/16 09:15 |
| 310-80618-3 | SB-7 (2-3.5) | Solid | 05/12/16 12:00 | 05/14/16 09:15 |
| 310-80618-4 | SB-1 (0-1.5) | Solid | 05/12/16 14:00 | 05/14/16 09:15 |
| 310-80618-5 | SB-2 (2-3.5) | Solid | 05/12/16 15:30 | 05/14/16 09:15 |
| 310-80618-6 | SB-3 (4.5-6) | Solid | 05/13/16 09:30 | 05/14/16 09:15 |
| 310-80618-7 | SB-4 (2-3.5) | Solid | 05/13/16 11:00 | 05/14/16 09:15 |
| 310-80618-8 | SB-8 (4.5-6) | Solid | 05/13/16 15:00 | 05/14/16 09:15 |
| 310-80618-9 | MeOH Trip Blank | Solid | 05/13/16 00:00 | 05/14/16 09:15 |

TestAmerica Cedar Falls

Detection Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Lab Sample ID: 310-80618-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-------|-----|-------|---------|---|-----------|-----------|
| Benzo[a]anthracene | 0.125 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[a]pyrene | 0.173 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[b]fluoranthene | 0.322 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[g,h,i]perylene | 0.182 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[k]fluoranthene | 0.115 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Chrysene | 0.168 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Fluoranthene | 0.194 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.138 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Pyrene | 0.205 | | 0.111 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Diesel Range Organics (DRO) | 28.1 * | | 4.22 | | mg/Kg | 1 | * | WI-DRO | Total/NA |
| Barium | 36.0 | | 0.567 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Chromium | 13.0 | | 1.13 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Arsenic | 2.29 | | 0.677 | | mg/Kg | 12 | * | 7010 | Total/NA |

Client Sample ID: SB-6 (2-3.5)

Lab Sample ID: 310-80618-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Diesel Range Organics (DRO) | 170 * | | 23.3 | | mg/Kg | 1 | * | WI-DRO | Total/NA |
| Barium | 56.3 | | 0.455 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Chromium | 14.8 | | 0.911 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Lead | 9.38 | | 4.55 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Arsenic | 2.32 | | 0.578 | | mg/Kg | 12 | * | 7010 | Total/NA |

Client Sample ID: SB-7 (2-3.5)

Lab Sample ID: 310-80618-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-------|-----|-------|---------|---|-----------|-----------|
| Benzo[a]anthracene | 0.136 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[a]pyrene | 0.170 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[b]fluoranthene | 0.222 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[g,h,i]perylene | 0.121 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Chrysene | 0.157 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Fluoranthene | 0.216 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Pyrene | 0.246 | | 0.115 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Diesel Range Organics (DRO) | 215 * | | 22.6 | | mg/Kg | 1 | * | WI-DRO | Total/NA |
| Barium | 48.4 | | 1.12 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Chromium | 13.3 | | 2.24 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Lead | 15.8 | | 11.2 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Arsenic | 2.85 | | 0.606 | | mg/Kg | 12 | * | 7010 | Total/NA |

Client Sample ID: SB-1 (0-1.5)

Lab Sample ID: 310-80618-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Diesel Range Organics (DRO) | 10.2 * | | 5.17 | | mg/Kg | 1 | * | WI-DRO | Total/NA |
| Barium | 36.7 | | 0.496 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Chromium | 16.2 | | 0.992 | | mg/Kg | 1 | * | 6010C | Total/NA |
| Arsenic | 2.16 | | 0.626 | | mg/Kg | 12 | * | 7010 | Total/NA |

Client Sample ID: SB-2 (2-3.5)

Lab Sample ID: 310-80618-5

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5) (Continued)

Lab Sample ID: 310-80618-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-------|-----|-------|---------|---|-----------|-----------|
| Benzo[a]anthracene | 0.259 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[a]pyrene | 0.331 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[b]fluoranthene | 0.463 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[g,h,i]perylene | 0.222 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[k]fluoranthene | 0.144 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Chrysene | 0.299 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Fluoranthene | 0.466 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.185 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Phenanthrene | 0.141 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Pyrene | 0.466 | | 0.101 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Diesel Range Organics (DRO) | 24.9 * | | 3.90 | | mg/Kg | 1 | * | WI-DRO | Total/NA |
| Barium | 42.5 | | 0.953 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Chromium | 12.6 | | 1.91 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Lead | 16.3 | | 9.53 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Arsenic | 2.56 | | 0.626 | | mg/Kg | 12 | * | 7010 | Total/NA |

Client Sample ID: SB-3 (4.5-6)

Lab Sample ID: 310-80618-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|--------|-----|-------|---------|---|-----------|-----------|
| Tetrachloroethene | 0.245 | | 0.103 | | mg/Kg | 1 | * | 8260B | Total/NA |
| Benzo[a]anthracene | 0.342 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[a]pyrene | 0.342 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[b]fluoranthene | 0.484 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[g,h,i]perylene | 0.171 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[k]fluoranthene | 0.143 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Chrysene | 0.369 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Fluoranthene | 0.553 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.125 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Phenanthrene | 0.197 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Pyrene | 0.601 | | 0.0982 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Diesel Range Organics (DRO) | 108 * | | 22.2 | | mg/Kg | 1 | * | WI-DRO | Total/NA |
| Barium | 36.7 | | 0.878 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Chromium | 14.0 | | 1.76 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Lead | 8.80 | | 8.78 | | mg/Kg | 2 | * | 6010C | Total/NA |
| Arsenic | 1.82 | | 0.623 | | mg/Kg | 12 | * | 7010 | Total/NA |

Client Sample ID: SB-4 (2-3.5)

Lab Sample ID: 310-80618-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|-------|-----|-------|---------|---|-----------|-----------|
| Benzo[a]anthracene | 0.289 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[a]pyrene | 0.356 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[b]fluoranthene | 0.482 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[g,h,i]perylene | 0.284 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Benzo[k]fluoranthene | 0.144 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Chrysene | 0.321 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Fluoranthene | 0.423 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Indeno[1,2,3-cd]pyrene | 0.203 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Phenanthrene | 0.113 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Pyrene | 0.493 | | 0.105 | | mg/Kg | 10 | * | 8270D SIM | Total/NA |
| Diesel Range Organics (DRO) | 42.5 * | | 18.1 | | mg/Kg | 1 | * | WI-DRO | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Detection Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5) (Continued)

Lab Sample ID: 310-80618-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|----------|--------|-----------|-------|-----|-------|---------|---|--------|-----------|
| Barium | 34.1 | | 0.491 | | mg/Kg | 1 | ⊗ | 6010C | Total/NA |
| Chromium | 11.0 | | 0.981 | | mg/Kg | 1 | ⊗ | 6010C | Total/NA |
| Lead | 9.69 | | 4.91 | | mg/Kg | 1 | ⊗ | 6010C | Total/NA |
| Arsenic | 2.29 | | 0.608 | | mg/Kg | 12 | ⊗ | 7010 | Total/NA |

Client Sample ID: SB-8 (4.5-6)

Lab Sample ID: 310-80618-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------------|--------|-----------|--------|-----|-------|---------|---|-----------|-----------|
| Benzo[b]fluoranthene | 0.139 | | 0.103 | | mg/Kg | 10 | ⊗ | 8270D SIM | Total/NA |
| Benzo[g,h,i]perylene | 0.110 | | 0.103 | | mg/Kg | 10 | ⊗ | 8270D SIM | Total/NA |
| Fluoranthene | 0.165 | | 0.103 | | mg/Kg | 10 | ⊗ | 8270D SIM | Total/NA |
| Phenanthrene | 0.157 | | 0.103 | | mg/Kg | 10 | ⊗ | 8270D SIM | Total/NA |
| Pyrene | 0.267 | | 0.103 | | mg/Kg | 10 | ⊗ | 8270D SIM | Total/NA |
| Diesel Range Organics (DRO) | 33.2 * | | 4.22 | | mg/Kg | 1 | ⊗ | WI-DRO | Total/NA |
| Barium | 26.0 | | 1.01 | | mg/Kg | 2 | ⊗ | 6010C | Total/NA |
| Chromium | 10.4 | | 2.02 | | mg/Kg | 2 | ⊗ | 6010C | Total/NA |
| Arsenic | 2.11 | | 0.539 | | mg/Kg | 12 | ⊗ | 7010 | Total/NA |
| Mercury | 0.0979 | | 0.0183 | | mg/Kg | 1 | ⊗ | 7471B | Total/NA |

Client Sample ID: MeOH Trip Blank

Lab Sample ID: 310-80618-9

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Date Collected: 05/12/16 10:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.572 | | 0.572 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Allyl chloride | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Benzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Bromobenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Bromoform | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Bromochloromethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Bromodichloromethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Bromoform | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Bromomethane | <0.572 | | 0.572 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 2-Butanone (MEK) | <0.286 | | 0.286 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Carbon tetrachloride | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Chlorobenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Chlorodibromomethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Chloroethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Chloroform | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Chloromethane | <0.286 | | 0.286 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 2-Chlorotoluene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 4-Chlorotoluene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| cis-1,2-Dichloroethene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| cis-1,3-Dichloropropene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2-Dibromoethane (EDB) | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Dibromomethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2-Dichlorobenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,3-Dichlorobenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,4-Dichlorobenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Dichlorodifluoromethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1-Dichloroethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2-Dichloroethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1-Dichloroethene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Dichlorofluoromethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2-Dichloropropane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,3-Dichloropropane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 2,2-Dichloropropane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1-Dichloropropene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Diethyl ether | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Ethylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Hexachlorobutadiene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Isopropylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Methylene Chloride | <0.286 | | 0.286 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Methyl tert-butyl ether | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Naphthalene | <0.286 | | 0.286 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| n-Butylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| N-Propylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| p-Isopropyltoluene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| sec-Butylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Styrene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| tert-Butylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.114 | | 0.114 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Date Collected: 05/12/16 10:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Tetrachloroethylene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Tetrahydrofuran | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Toluene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| trans-1,2-Dichloroethene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| trans-1,3-Dichloropropene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2,3-Trichlorobenzene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2,4-Trichlorobenzene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1,1-Trichloroethane | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1,2-Trichloroethane | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Trichloroethylene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Trichlorofluoromethane | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2,3-Trichloropropane | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,2,4-Trimethylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| 1,3,5-Trimethylbenzene | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Vinyl chloride | <0.114 | | 0.114 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Xylenes, Total | <0.172 | | 0.172 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:07 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|----------------|---------|
| | | | 70 - 135 | 80 - 120 | | | |
| 4-Bromoanisole (Surr) | 100 | | | | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Dibromofluoromethane (Surr) | 95 | | | | 05/18/16 07:38 | 05/18/16 23:07 | 1 |
| Toluene-d8 (Surr) | 100 | | | | 05/18/16 07:38 | 05/18/16 23:07 | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Acenaphthylene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Anthracene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Benzo[a]anthracene | 0.125 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Benzo[a]pyrene | 0.173 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Benzo[b]fluoranthene | 0.322 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Benzo[g,h,i]perylene | 0.182 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Benzo[k]fluoranthene | 0.115 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Chrysene | 0.168 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Dibenz(a,h)anthracene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Fluoranthene | 0.194 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Fluorene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Indeno[1,2,3-cd]pyrene | 0.138 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| 2-Methylnaphthalene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Naphthalene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Phenanthrene | <0.111 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Pyrene | 0.205 | | 0.111 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:05 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 75 | | 10 - 110 | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Nitrobenzene-d5 (Surr) | 57 | | 10 - 110 | 05/16/16 13:52 | 05/17/16 19:05 | 10 |
| Terphenyl-d14 (Surr) | 79 | | 20 - 110 | 05/16/16 13:52 | 05/17/16 19:05 | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Date Collected: 05/12/16 10:00
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| PCB-1016 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1221 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1232 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1242 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1248 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1254 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1260 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| PCB-1268 | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| Polychlorinated biphenyls, Total | <0.0575 | | 0.0575 | | mg/Kg | ⊗ | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 48 | | 10 - 110 | | | | 05/24/16 10:09 | 05/24/16 18:41 | 1 |
| Tetrachloro-m-xylene | 50 | | 10 - 110 | | | | 05/24/16 10:09 | 05/24/16 18:41 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 28.1 | * | 4.22 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 19:39 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Barium | 36.0 | | 0.567 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:00 | 1 |
| Cadmium | <1.13 | | 1.13 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:00 | 1 |
| Chromium | 13.0 | | 1.13 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:00 | 1 |
| Lead | <5.67 | | 5.67 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:00 | 1 |
| Silver | <1.13 | | 1.13 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:00 | 1 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.29 | | 0.677 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:07 | 12 |
| Selenium | <1.13 | | 1.13 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:15 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0212 | | 0.0212 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 12:53 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 13.2 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 86.8 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-6 (2-3.5)

Date Collected: 05/12/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.552 | | 0.552 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Allyl chloride | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Benzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Bromobenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Bromoform | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Bromochloromethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Bromodichloromethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Bromoform | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Bromomethane | <0.552 | | 0.552 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 2-Butanone (MEK) | <0.276 | | 0.276 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Carbon tetrachloride | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Chlorobenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Chlorodibromomethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Chloroethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Chloroform | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Chloromethane | <0.276 | | 0.276 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 2-Chlorotoluene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 4-Chlorotoluene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| cis-1,2-Dichloroethene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| cis-1,3-Dichloropropene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.110 | F1 F2 | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2-Dibromoethane (EDB) | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Dibromomethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2-Dichlorobenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,3-Dichlorobenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,4-Dichlorobenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Dichlorodifluoromethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1-Dichloroethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2-Dichloroethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1-Dichloroethene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Dichlorofluoromethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2-Dichloropropane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,3-Dichloropropane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 2,2-Dichloropropane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1-Dichloropropene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Diethyl ether | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Ethylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Hexachlorobutadiene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Isopropylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Methylene Chloride | <0.276 | | 0.276 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Methyl tert-butyl ether | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Naphthalene | <0.276 | | 0.276 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| n-Butylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| N-Propylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| p-Isopropyltoluene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| sec-Butylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Styrene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| tert-Butylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.110 | | 0.110 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-6 (2-3.5)

Date Collected: 05/12/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Tetrachloroethylene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Tetrahydrofuran | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Toluene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| trans-1,2-Dichloroethene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| trans-1,3-Dichloropropene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2,3-Trichlorobenzene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2,4-Trichlorobenzene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1,1-Trichloroethane | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1,2-Trichloroethane | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Trichloroethylene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Trichlorofluoromethane | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2,3-Trichloropropane | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,2,4-Trimethylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| 1,3,5-Trimethylbenzene | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Vinyl chloride | <0.110 | | 0.110 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |
| Xylenes, Total | <0.166 | | 0.166 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | | | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|--|--|----------------|----------------|
| | | | | | | | | |
| 4-Bromoanisole (Surr) | 98 | | 70 - 135 | | | | 05/18/16 07:38 | 05/18/16 23:32 |
| Dibromofluoromethane (Surr) | 96 | | 80 - 120 | | | | 05/18/16 07:38 | 05/18/16 23:32 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | | | 05/18/16 07:38 | 05/18/16 23:32 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Acenaphthylene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Anthracene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Benzo[a]anthracene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Benzo[a]pyrene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Benzo[b]fluoranthene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Benzo[g,h,i]perylene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Benzo[k]fluoranthene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Chrysene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Dibenz(a,h)anthracene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Fluoranthene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Fluorene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Indeno[1,2,3-cd]pyrene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| 2-Methylnaphthalene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Naphthalene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Phenanthrene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |
| Pyrene | <0.413 | | 0.413 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:27 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------|----------|---------|
| 2-Fluorobiphenyl (Surr) | 71 | | 10 - 110 | | | 10 |
| Nitrobenzene-d5 (Surr) | 49 | | 10 - 110 | | | 10 |
| Terphenyl-d14 (Surr) | 93 | | 20 - 110 | | | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-6 (2-3.5)

Date Collected: 05/12/16 11:00
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| PCB-1016 | <0.0548 | * | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1221 | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1232 | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1242 | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1248 | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1254 | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1260 | <0.0548 | * | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| PCB-1268 | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| Polychlorinated biphenyls, Total | <0.0548 | | 0.0548 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 71 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 17:57 | 1 |
| Tetrachloro-m-xylene | 62 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 17:57 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 170 | * | 23.3 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 20:15 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Barium | 56.3 | | 0.455 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:02 | 1 |
| Cadmium | <0.911 | | 0.911 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:02 | 1 |
| Chromium | 14.8 | | 0.911 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:02 | 1 |
| Lead | 9.38 | | 4.55 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:02 | 1 |
| Silver | <0.911 | | 0.911 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:02 | 1 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.32 | | 0.578 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:18 | 12 |
| Selenium | <0.963 | | 0.963 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:18 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0199 | | 0.0199 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 12:54 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 9.0 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 91.0 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)

Date Collected: 05/12/16 12:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.566 | | 0.566 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Allyl chloride | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Benzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Bromobenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Bromoform | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Bromochloromethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Bromodichloromethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Bromoform | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Bromomethane | <0.566 | | 0.566 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 2-Butanone (MEK) | <0.283 | | 0.283 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Carbon tetrachloride | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Chlorobenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Chlorodibromomethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Chloroethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Chloroform | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Chloromethane | <0.283 | | 0.283 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 2-Chlorotoluene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 4-Chlorotoluene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| cis-1,2-Dichloroethene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| cis-1,3-Dichloropropene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2-Dibromoethane (EDB) | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Dibromomethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2-Dichlorobenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,3-Dichlorobenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,4-Dichlorobenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Dichlorodifluoromethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1-Dichloroethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2-Dichloroethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1-Dichloroethene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Dichlorofluoromethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2-Dichloropropane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,3-Dichloropropane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 2,2-Dichloropropane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1-Dichloropropene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Diethyl ether | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Ethylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Hexachlorobutadiene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Isopropylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Methylene Chloride | <0.283 | | 0.283 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Methyl tert-butyl ether | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Naphthalene | <0.283 | | 0.283 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| n-Butylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| N-Propylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| p-Isopropyltoluene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| sec-Butylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Styrene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| tert-Butylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.113 | | 0.113 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)

Date Collected: 05/12/16 12:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Tetrachloroethylene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Tetrahydrofuran | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Toluene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| trans-1,2-Dichloroethene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| trans-1,3-Dichloropropene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2,3-Trichlorobenzene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2,4-Trichlorobenzene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1,1-Trichloroethane | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1,2-Trichloroethane | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Trichloroethylene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Trichlorofluoromethane | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2,3-Trichloropropane | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,2,4-Trimethylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| 1,3,5-Trimethylbenzene | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Vinyl chloride | <0.113 | | 0.113 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Xylenes, Total | <0.170 | | 0.170 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/18/16 23:56 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|----------------|---------|
| | | | 70 - 135 | 80 - 120 | | | |
| 4-Bromofluorobenzene (Surr) | 102 | | | | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Dibromofluoromethane (Surr) | 94 | | | | 05/18/16 07:38 | 05/18/16 23:56 | 1 |
| Toluene-d8 (Surr) | 100 | | | | 05/18/16 07:38 | 05/18/16 23:56 | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Acenaphthylene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Anthracene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Benzo[a]anthracene | 0.136 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Benzo[a]pyrene | 0.170 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Benzo[b]fluoranthene | 0.222 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Benzo[g,h,i]perylene | 0.121 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Benzo[k]fluoranthene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Chrysene | 0.157 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Dibenz(a,h)anthracene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Fluoranthene | 0.216 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Fluorene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Indeno[1,2,3-cd]pyrene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| 2-Methylnaphthalene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Naphthalene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Phenanthrene | <0.115 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Pyrene | 0.246 | | 0.115 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 19:50 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 20 | | 10 - 110 | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Nitrobenzene-d5 (Surr) | 13 | | 10 - 110 | 05/16/16 13:52 | 05/17/16 19:50 | 10 |
| Terphenyl-d14 (Surr) | 24 | | 20 - 110 | 05/16/16 13:52 | 05/17/16 19:50 | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)

Date Collected: 05/12/16 12:00
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | <0.0569 | * | 0.0569 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 66 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:08 | 1 |
| Tetrachloro-m-xylene | 61 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:08 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 215 | * | 22.6 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 20:52 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Barium | 48.4 | | 1.12 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:03 | 2 |
| Cadmium | <2.24 | | 2.24 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:03 | 2 |
| Chromium | 13.3 | | 2.24 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:03 | 2 |
| Lead | 15.8 | | 11.2 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:03 | 2 |
| Silver | <2.24 | | 2.24 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:03 | 2 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.85 | | 0.606 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:22 | 12 |
| Selenium | <1.01 | | 1.01 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:22 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0214 | | 0.0214 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 12:56 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|----|------|---|----------|----------------|---------|
| Percent Moisture | 13.4 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 86.6 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-1 (0-1.5)

Date Collected: 05/12/16 14:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.541 | | 0.541 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Allyl chloride | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Benzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Bromobenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Bromoform | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Bromochloromethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Bromodichloromethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Bromoform | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Bromomethane | <0.541 | | 0.541 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 2-Butanone (MEK) | <0.271 | | 0.271 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Carbon tetrachloride | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Chlorobenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Chlorodibromomethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Chloroethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Chloroform | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Chloromethane | <0.271 | | 0.271 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 2-Chlorotoluene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 4-Chlorotoluene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| cis-1,2-Dichloroethene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| cis-1,3-Dichloropropene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2-Dibromoethane (EDB) | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Dibromomethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2-Dichlorobenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,3-Dichlorobenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,4-Dichlorobenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Dichlorodifluoromethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1-Dichloroethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2-Dichloroethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1-Dichloroethene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Dichlorofluoromethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2-Dichloropropane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,3-Dichloropropane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 2,2-Dichloropropane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1-Dichloropropene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Diethyl ether | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Ethylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Hexachlorobutadiene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Isopropylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Methylene Chloride | <0.271 | | 0.271 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Methyl tert-butyl ether | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Naphthalene | <0.271 | | 0.271 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| n-Butylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| N-Propylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| p-Isopropyltoluene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| sec-Butylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Styrene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| tert-Butylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.108 | | 0.108 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-1 (0-1.5)

Date Collected: 05/12/16 14:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Tetrachloroethene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Tetrahydrofuran | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Toluene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| trans-1,2-Dichloroethene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| trans-1,3-Dichloropropene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2,3-Trichlorobenzene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2,4-Trichlorobenzene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1,1-Trichloroethane | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1,2-Trichloroethane | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Trichloroethene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Trichlorofluoromethane | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2,3-Trichloropropane | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,2,4-Trimethylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| 1,3,5-Trimethylbenzene | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Vinyl chloride | <0.108 | | 0.108 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |
| Xylenes, Total | <0.162 | | 0.162 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | | | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------|----------------|----------------|----------|---------|
| | | | | D | Prepared | Analyzed | | |
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 135 | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | | 1 |
| Dibromofluoromethane (Surr) | 95 | | 80 - 120 | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | | 1 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | ⊕ | 05/18/16 07:38 | 05/19/16 00:20 | | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Acenaphthylene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Anthracene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Benzo[a]anthracene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Benzo[a]pyrene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Benzo[b]fluoranthene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Benzo[g,h,i]perylene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Benzo[k]fluoranthene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Chrysene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Dibenz(a,h)anthracene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Fluoranthene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Fluorene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Indeno[1,2,3-cd]pyrene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| 2-Methylnaphthalene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Naphthalene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Phenanthrene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Pyrene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | D | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 78 | | 10 - 110 | | | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Nitrobenzene-d5 (Surr) | 58 | | 10 - 110 | | | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |
| Terphenyl-d14 (Surr) | 84 | | 20 - 110 | | | ⊕ | 05/16/16 13:52 | 05/17/16 20:12 | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-1 (0-1.5)

Date Collected: 05/12/16 14:00
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|---------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| PCB-1016 | <0.0539 | * | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1221 | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1232 | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1242 | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1248 | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1254 | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1260 | <0.0539 | * | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| PCB-1268 | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| Polychlorinated biphenyls, Total | <0.0539 | | 0.0539 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | | 65 | | 10 - 110 | | | 05/16/16 13:54 | 05/17/16 18:18 | 1 |
| Tetrachloro-m-xylene | | 63 | | 10 - 110 | | | 05/16/16 13:54 | 05/17/16 18:18 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 10.2 | * | 5.17 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 21:28 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Barium | 36.7 | | 0.496 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:06 | 1 |
| Cadmium | <0.992 | | 0.992 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:06 | 1 |
| Chromium | 16.2 | | 0.992 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:06 | 1 |
| Lead | <4.96 | | 4.96 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:06 | 1 |
| Silver | <0.992 | | 0.992 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:06 | 1 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.16 | | 0.626 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:26 | 12 |
| Selenium | <1.04 | | 1.04 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:25 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0214 | | 0.0214 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 12:58 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|----|------|---|----------|----------------|---------|
| Percent Moisture | 8.7 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 91.3 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)

Date Collected: 05/12/16 15:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.530 | | 0.530 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Allyl chloride | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Benzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Bromobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Bromoform | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Bromochloromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Bromodichloromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Bromoform | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Bromomethane | <0.530 | | 0.530 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 2-Butanone (MEK) | <0.265 | | 0.265 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Carbon tetrachloride | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Chlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Chlorodibromomethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Chloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Chloroform | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Chloromethane | <0.265 | | 0.265 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 2-Chlorotoluene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 4-Chlorotoluene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| cis-1,2-Dichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| cis-1,3-Dichloropropene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2-Dibromoethane (EDB) | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Dibromomethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2-Dichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,3-Dichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,4-Dichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Dichlorodifluoromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1-Dichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2-Dichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1-Dichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Dichlorofluoromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2-Dichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,3-Dichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 2,2-Dichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1-Dichloropropene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Diethyl ether | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Ethylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Hexachlorobutadiene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Isopropylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Methylene Chloride | <0.265 | | 0.265 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Methyl tert-butyl ether | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Naphthalene | <0.265 | | 0.265 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| n-Butylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| N-Propylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| p-Isopropyltoluene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| sec-Butylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Styrene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| tert-Butylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)

Date Collected: 05/12/16 15:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Tetrachloroethene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Tetrahydrofuran | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Toluene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| trans-1,2-Dichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| trans-1,3-Dichloropropene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2,3-Trichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2,4-Trichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1,1-Trichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1,2-Trichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Trichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Trichlorofluoromethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2,3-Trichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,2,4-Trimethylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| 1,3,5-Trimethylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Vinyl chloride | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Xylenes, Total | <0.159 | | 0.159 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 00:44 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102 | | 70 - 135 | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 80 - 120 | 05/18/16 07:38 | 05/19/16 00:44 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | 05/18/16 07:38 | 05/19/16 00:44 | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|----------|----------------|----------------|---------|----------------|----------------|---------|
| Acenaphthene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Acenaphthylene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Anthracene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Benzo[a]anthracene | 0.259 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Benzo[a]pyrene | 0.331 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Benzo[b]fluoranthene | 0.463 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Benzo[g,h,i]perylene | 0.222 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Benzo[k]fluoranthene | 0.144 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Chrysene | 0.299 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Dibenz(a,h)anthracene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Fluoranthene | 0.466 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Fluorene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Indeno[1,2,3-cd]pyrene | 0.185 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| 2-Methylnaphthalene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Naphthalene | <0.101 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Phenanthrene | 0.141 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Pyrene | 0.466 | | 0.101 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:34 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac | | | |
| 2-Fluorobiphenyl (Surr) | 72 | | 10 - 110 | 05/16/16 13:52 | 05/17/16 20:34 | 10 | | | |
| Nitrobenzene-d5 (Surr) | 53 | | 10 - 110 | 05/16/16 13:52 | 05/17/16 20:34 | 10 | | | |
| Terphenyl-d14 (Surr) | 78 | | 20 - 110 | 05/16/16 13:52 | 05/17/16 20:34 | 10 | | | |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)

Date Collected: 05/12/16 15:30
Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| PCB-1016 | <0.0525 | * | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1221 | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1232 | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1242 | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1248 | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1254 | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1260 | <0.0525 | * | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| PCB-1268 | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| Polychlorinated biphenyls, Total | <0.0525 | | 0.0525 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 65 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:29 | 1 |
| Tetrachloro-m-xylene | 62 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:29 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 24.9 | * | 3.90 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 22:04 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Barium | 42.5 | | 0.953 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:06 | 2 |
| Cadmium | <1.91 | | 1.91 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:06 | 2 |
| Chromium | 12.6 | | 1.91 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:06 | 2 |
| Lead | 16.3 | | 9.53 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:06 | 2 |
| Silver | <1.91 | | 1.91 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:06 | 2 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.56 | | 0.626 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:30 | 12 |
| Selenium | <1.04 | | 1.04 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:35 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0211 | | 0.0211 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 13:02 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 7.2 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 92.8 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-3 (4.5-6)

Date Collected: 05/13/16 09:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.517 | | 0.517 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Allyl chloride | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Benzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Bromobenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Bromoform | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Bromochloromethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Bromodichloromethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Bromoform | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Bromomethane | <0.517 | | 0.517 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 2-Butanone (MEK) | <0.259 | | 0.259 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Carbon tetrachloride | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Chlorobenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Chlorodibromomethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Chloroethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Chloroform | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Chloromethane | <0.259 | | 0.259 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 2-Chlorotoluene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 4-Chlorotoluene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| cis-1,2-Dichloroethene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| cis-1,3-Dichloropropene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2-Dibromoethane (EDB) | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Dibromomethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2-Dichlorobenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,3-Dichlorobenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,4-Dichlorobenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Dichlorodifluoromethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1-Dichloroethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2-Dichloroethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1-Dichloroethene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Dichlorofluoromethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2-Dichloropropane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,3-Dichloropropane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 2,2-Dichloropropane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1-Dichloropropene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Diethyl ether | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Ethylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Hexachlorobutadiene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Isopropylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Methylene Chloride | <0.259 | | 0.259 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Methyl tert-butyl ether | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Naphthalene | <0.259 | | 0.259 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| n-Butylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| N-Propylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| p-Isopropyltoluene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| sec-Butylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Styrene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| tert-Butylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.103 | | 0.103 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-3 (4.5-6)

Date Collected: 05/13/16 09:30
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1,1,2,2-Tetrachloroethane | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Tetrachloroethene | 0.245 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Tetrahydrofuran | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Toluene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| trans-1,2-Dichloroethene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| trans-1,3-Dichloropropene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2,3-Trichlorobenzene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2,4-Trichlorobenzene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1,1-Trichloroethane | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1,2-Trichloroethane | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Trichloroethene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Trichlorofluoromethane | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2,3-Trichloropropane | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,2,4-Trimethylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| 1,3,5-Trimethylbenzene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Vinyl chloride | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Xylenes, Total | <0.155 | | 0.155 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromoarobenzene (Surr) | 98 | | 70 - 135 | | | | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Dibromofluoromethane (Surr) | 95 | | 80 - 120 | | | | 05/18/16 07:38 | 05/19/16 01:08 | 1 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | | | 05/18/16 07:38 | 05/19/16 01:08 | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Acenaphthene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Acenaphthylene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Anthracene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Benzo[a]anthracene | 0.342 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Benzo[a]pyrene | 0.342 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Benzo[b]fluoranthene | 0.484 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Benzo[g,h,i]perylene | 0.171 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Benzo[k]fluoranthene | 0.143 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Chrysene | 0.369 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Dibenz(a,h)anthracene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Fluoranthene | 0.553 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Fluorene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Indeno[1,2,3-cd]pyrene | 0.125 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| 2-Methylnaphthalene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Naphthalene | <0.0982 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Phenanthrene | 0.197 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Pyrene | 0.601 | | 0.0982 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 69 | | 10 - 110 | | | | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Nitrobenzene-d5 (Surr) | 54 | | 10 - 110 | | | | 05/16/16 13:52 | 05/17/16 20:57 | 10 |
| Terphenyl-d14 (Surr) | 70 | | 20 - 110 | | | | 05/16/16 13:52 | 05/17/16 20:57 | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-3 (4.5-6)

Date Collected: 05/13/16 09:30
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| PCB-1016 | <0.0524 | * | 0.0524 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 57 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:39 | 1 |
| Tetrachloro-m-xylene | 53 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:39 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 108 | * | 22.2 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 22:40 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Barium | 36.7 | | 0.878 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:08 | 2 |
| Cadmium | <1.76 | | 1.76 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:08 | 2 |
| Chromium | 14.0 | | 1.76 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:08 | 2 |
| Lead | 8.80 | | 8.78 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:08 | 2 |
| Silver | <1.76 | | 1.76 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:08 | 2 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 1.82 | | 0.623 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:38 | 12 |
| Selenium | <1.04 | | 1.04 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:41 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0203 | | 0.0203 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 13:04 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | RL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|----|------|---|----------|----------------|---------|
| Percent Moisture | 5.6 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 94.4 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)

Date Collected: 05/13/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.532 | | 0.532 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Allyl chloride | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Benzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Bromobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Bromoform | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Bromochloromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Bromodichloromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Bromoform | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Bromomethane | <0.532 | | 0.532 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 2-Butanone (MEK) | <0.266 | | 0.266 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Carbon tetrachloride | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Chlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Chlorodibromomethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Chloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Chloroform | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Chloromethane | <0.266 | | 0.266 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 2-Chlorotoluene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 4-Chlorotoluene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| cis-1,2-Dichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| cis-1,3-Dichloropropene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2-Dibromoethane (EDB) | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Dibromomethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2-Dichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,3-Dichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,4-Dichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Dichlorodifluoromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1-Dichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2-Dichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1-Dichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Dichlorofluoromethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2-Dichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,3-Dichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 2,2-Dichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1-Dichloropropene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Diethyl ether | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Ethylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Hexachlorobutadiene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Isopropylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Methylene Chloride | <0.266 | | 0.266 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Methyl tert-butyl ether | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Naphthalene | <0.266 | | 0.266 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| n-Butylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| N-Propylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| p-Isopropyltoluene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| sec-Butylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Styrene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| tert-Butylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.106 | | 0.106 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)

Date Collected: 05/13/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| 1,1,2,2-Tetrachloroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Tetrachloroethene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Tetrahydrofuran | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Toluene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| trans-1,2-Dichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| trans-1,3-Dichloropropene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2,3-Trichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2,4-Trichlorobenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1,1-Trichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1,2-Trichloroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Trichloroethene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Trichlorofluoromethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2,3-Trichloropropane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,2,4-Trimethylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| 1,3,5-Trimethylbenzene | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Vinyl chloride | <0.106 | | 0.106 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Xylenes, Total | <0.160 | | 0.160 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:32 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 135 | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Dibromofluoromethane (Surr) | 93 | | 80 - 120 | 05/18/16 07:38 | 05/19/16 01:32 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | 05/18/16 07:38 | 05/19/16 01:32 | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acenaphthene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Acenaphthylene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Anthracene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Benzo[a]anthracene | 0.289 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Benzo[a]pyrene | 0.356 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Benzo[b]fluoranthene | 0.482 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Benzo[g,h,i]perylene | 0.284 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Benzo[k]fluoranthene | 0.144 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Chrysene | 0.321 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Dibenz(a,h)anthracene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Fluoranthene | 0.423 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Fluorene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Indeno[1,2,3-cd]pyrene | 0.203 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| 2-Methylnaphthalene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Naphthalene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Phenanthrene | 0.113 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Pyrene | 0.493 | | 0.105 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 15:37 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|-------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 2-Fluorobiphenyl (Surr) | 79 | | 10 - 110 | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Nitrobenzene-d5 (Surr) | 62 | | 10 - 110 | 05/16/16 13:52 | 05/18/16 15:37 | 10 |
| Terphenyl-d14 (Surr) | 78 | | 20 - 110 | 05/16/16 13:52 | 05/18/16 15:37 | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)

Date Collected: 05/13/16 11:00
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| PCB-1016 | <0.0514 | * | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1221 | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1232 | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1242 | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1248 | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1254 | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1260 | <0.0514 | * | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| PCB-1268 | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| Polychlorinated biphenyls, Total | <0.0514 | | 0.0514 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 59 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:50 | 1 |
| Tetrachloro-m-xylene | 54 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 18:50 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|----|------|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 42.5 | * | | 18.1 | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 23:16 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Barium | 34.1 | | 0.491 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:14 | 1 |
| Cadmium | <0.981 | | 0.981 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:14 | 1 |
| Chromium | 11.0 | | 0.981 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:14 | 1 |
| Lead | 9.69 | | 4.91 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:14 | 1 |
| Silver | <0.981 | | 0.981 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 19:14 | 1 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.29 | | 0.608 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:41 | 12 |
| Selenium | <1.01 | | 1.01 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:44 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|---------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | <0.0192 | | 0.0192 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 13:05 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 5.0 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 95.0 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-8 (4.5-6)

Date Collected: 05/13/16 15:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Acetone | <0.523 | | 0.523 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Allyl chloride | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Benzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Bromobenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Bromoform | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Bromochloromethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Bromodichloromethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Bromoform | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Bromomethane | <0.523 | | 0.523 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 2-Butanone (MEK) | <0.261 | | 0.261 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Carbon tetrachloride | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Chlorobenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Chlorodibromomethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Chloroethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Chloroform | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Chloromethane | <0.261 | | 0.261 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 2-Chlorotoluene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 4-Chlorotoluene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| cis-1,2-Dichloroethene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| cis-1,3-Dichloropropene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2-Dibromoethane (EDB) | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Dibromomethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2-Dichlorobenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,3-Dichlorobenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,4-Dichlorobenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Dichlorodifluoromethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1-Dichloroethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2-Dichloroethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1-Dichloroethene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Dichlorofluoromethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2-Dichloropropane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,3-Dichloropropane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 2,2-Dichloropropane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1-Dichloropropene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Diethyl ether | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Ethylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Hexachlorobutadiene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Isopropylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Methylene Chloride | <0.261 | | 0.261 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Methyl tert-butyl ether | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Naphthalene | <0.261 | | 0.261 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| n-Butylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| N-Propylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| p-Isopropyltoluene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| sec-Butylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Styrene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| tert-Butylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1,1,2-Tetrachloroethane | <0.105 | | 0.105 | | mg/Kg | ⊗ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-8 (4.5-6)

Date Collected: 05/13/16 15:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| 1,1,2,2-Tetrachloroethane | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Tetrachloroethene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Tetrahydrofuran | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Toluene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| trans-1,2-Dichloroethene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| trans-1,3-Dichloropropene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2,3-Trichlorobenzene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2,4-Trichlorobenzene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1,1-Trichloroethane | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1,2-Trichloroethane | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Trichloroethene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Trichlorofluoromethane | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2,3-Trichloropropane | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,2,4-Trimethylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| 1,3,5-Trimethylbenzene | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Vinyl chloride | <0.105 | | 0.105 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Xylenes, Total | <0.157 | | 0.157 | | mg/Kg | ⊕ | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 135 | | | | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Dibromofluoromethane (Surr) | 94 | | 80 - 120 | | | | 05/18/16 07:38 | 05/19/16 01:56 | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | 05/18/16 07:38 | 05/19/16 01:56 | 1 |

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| Acenaphthene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Acenaphthylene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Anthracene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Benzo[a]anthracene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Benzo[a]pyrene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Benzo[b]fluoranthene | 0.139 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Benzo[g,h,i]perylene | 0.110 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Benzo[k]fluoranthene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Chrysene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Dibenz(a,h)anthracene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Fluoranthene | 0.165 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Fluorene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Indeno[1,2,3-cd]pyrene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| 2-Methylnaphthalene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Naphthalene | <0.103 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Phenanthrene | 0.157 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Pyrene | 0.267 | | 0.103 | | mg/Kg | ⊕ | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 2-Fluorobiphenyl (Surr) | 68 | | 10 - 110 | | | | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Nitrobenzene-d5 (Surr) | 52 | | 10 - 110 | | | | 05/16/16 13:52 | 05/18/16 16:00 | 10 |
| Terphenyl-d14 (Surr) | 69 | | 20 - 110 | | | | 05/16/16 13:52 | 05/18/16 16:00 | 10 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-8 (4.5-6)

Date Collected: 05/13/16 15:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8

Matrix: Solid

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|------------------|------------------|---------------|-----|-------|---|-----------------|-----------------|----------------|
| PCB-1016 | <0.0508 | * | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1221 | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1232 | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1242 | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1248 | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1254 | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1260 | <0.0508 | * | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| PCB-1268 | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| Polychlorinated biphenyls, Total | <0.0508 | | 0.0508 | | mg/Kg | ⊗ | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| DCB Decachlorobiphenyl (Surr) | 64 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 19:00 | 1 |
| Tetrachloro-m-xylene | 60 | | 10 - 110 | | | | 05/16/16 13:54 | 05/17/16 19:00 | 1 |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Diesel Range Organics (DRO) | 33.2 | * | 4.22 | | mg/Kg | ⊗ | 05/16/16 14:00 | 05/17/16 23:52 | 1 |

Method: 6010C - Metals (ICP)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Barium | 26.0 | | 1.01 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:10 | 2 |
| Cadmium | <2.02 | | 2.02 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:10 | 2 |
| Chromium | 10.4 | | 2.02 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:10 | 2 |
| Lead | <10.1 | | 10.1 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:10 | 2 |
| Silver | <2.02 | | 2.02 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 21:10 | 2 |

Method: 7010 - Metals (GFAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| Arsenic | 2.11 | | 0.539 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/18/16 14:45 | 12 |
| Selenium | <0.898 | | 0.898 | | mg/Kg | ⊗ | 05/17/16 10:00 | 05/17/16 12:48 | 4 |

Method: 7471B - Mercury (CVAA)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|--------|-----------|--------|-----|-------|---|----------------|----------------|---------|
| Mercury | 0.0979 | | 0.0183 | | mg/Kg | ⊗ | 05/16/16 14:10 | 05/17/16 13:07 | 1 |

General Chemistry

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Percent Moisture | 5.3 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |
| Percent Solids | 94.7 | | 0.1 | | % | | | 05/16/16 09:56 | 1 |

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: MeOH Trip Blank

Date Collected: 05/13/16 00:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------|-----|-------|----------------|----------------|----------|---------|
| Acetone | <0.500 | | 0.500 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Allyl chloride | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Benzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Bromobenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Bromochloromethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Bromodichloromethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Bromoform | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Bromomethane | <0.500 | | 0.500 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 2-Butanone (MEK) | <0.250 | | 0.250 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Carbon tetrachloride | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Chlorobenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Chlorodibromomethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Chloroethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Chloroform | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Chloromethane | <0.250 | | 0.250 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 2-Chlorotoluene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 4-Chlorotoluene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| cis-1,2-Dichloroethene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| cis-1,3-Dichloropropene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,2-Dibromoethane (EDB) | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Dibromomethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,2-Dichlorobenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,3-Dichlorobenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,4-Dichlorobenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Dichlorodifluoromethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,1-Dichloroethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,2-Dichloroethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,1-Dichloroethene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Dichlorofluoromethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,2-Dichloropropane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,3-Dichloropropane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 2,2-Dichloropropane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,1-Dichloropropene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Diethyl ether | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Ethylbenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Hexachlorobutadiene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Isopropylbenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Methylene Chloride | <0.250 | | 0.250 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Methyl tert-butyl ether | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Naphthalene | <0.250 | | 0.250 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| n-Butylbenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| N-Propylbenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| p-Isopropyltoluene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| sec-Butylbenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| Styrene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| tert-Butylbenzene | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |
| 1,1,1,2-Tetrachloroethane | <0.100 | | 0.100 | | mg/Kg | 05/18/16 07:38 | 05/19/16 02:21 | | 1 |

TestAmerica Cedar Falls

Client Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: MeOH Trip Blank

Date Collected: 05/13/16 00:00
 Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-9

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| 1,1,2,2-Tetrachloroethane | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Tetrachloroethene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Tetrahydrofuran | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Toluene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| trans-1,2-Dichloroethene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| trans-1,3-Dichloropropene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,2,3-Trichlorobenzene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,2,4-Trichlorobenzene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,1,1-Trichloroethane | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,1,2-Trichloroethane | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Trichloroethene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Trichlorofluoromethane | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,2,3-Trichloropropane | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,2,4-Trimethylbenzene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| 1,3,5-Trimethylbenzene | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Vinyl chloride | <0.100 | | 0.100 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Xylenes, Total | <0.150 | | 0.150 | | mg/Kg | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 4-Bromoarobenzene (Sur) | | 99 | | 70 - 135 | | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Dibromofluoromethane (Sur) | | 92 | | 80 - 120 | | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |
| Toluene-d8 (Sur) | | 101 | | 80 - 120 | | | 05/18/16 07:38 | 05/19/16 02:21 | 1 |

Definitions/Glossary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| F1 | MS and/or MSD Recovery is outside acceptance limits. |
| F2 | MS/MSD RPD exceeds control limits |

GC Semi VOA

| Qualifier | Qualifier Description |
|-----------|--|
| * | LCS or LCSD is outside acceptance limits. |
| * | RPD of the LCS and LCSD exceeds the control limits |
| X | Surrogate is outside control limits |

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains no Free Liquid |
| DER | Duplicate error ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC | Decision level concentration |
| MDA | Minimum detectable activity |
| EDL | Estimated Detection Limit |
| MDC | Minimum detectable concentration |
| MDL | Method Detection Limit |
| ML | Minimum Level (Dioxin) |
| NC | Not Calculated |
| ND | Not detected at the reporting limit (or MDL or EDL if shown) |
| PQL | Practical Quantitation Limit |
| QC | Quality Control |
| RER | Relative error ratio |
| RL | Reporting Limit or Requested Limit (Radiochemistry) |
| RPD | Relative Percent Difference, a measure of the relative difference between two points |
| TEF | Toxicity Equivalent Factor (Dioxin) |
| TEQ | Toxicity Equivalent Quotient (Dioxin) |

Surrogate Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|--------------------|--|------------------|-----------------|
| | | BFB (70-135) | DBFM (80-120) | TOL (80-120) |
| 310-80618-1 | SB-5 (2-3.5) | 100 | 95 | 100 |
| 310-80618-2 | SB-6 (2-3.5) | 98 | 96 | 101 |
| 310-80618-2 MS | SB-6 (2-3.5) | 100 | 101 | 101 |
| 310-80618-2 MSD | SB-6 (2-3.5) | 99 | 98 | 101 |
| 310-80618-3 | SB-7 (2-3.5) | 102 | 94 | 100 |
| 310-80618-4 | SB-1 (0-1.5) | 100 | 95 | 101 |
| 310-80618-5 | SB-2 (2-3.5) | 102 | 95 | 103 |
| 310-80618-6 | SB-3 (4.5-6) | 98 | 95 | 101 |
| 310-80618-7 | SB-4 (2-3.5) | 98 | 93 | 100 |
| 310-80618-8 | SB-8 (4.5-6) | 98 | 94 | 99 |
| 310-80618-9 | MeOH Trip Blank | 99 | 92 | 101 |
| LCS 310-127938/2-A | Lab Control Sample | 101 | 101 | 101 |
| MB 310-127938/1-A | Method Blank | 98 | 93 | 100 |

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|--------------------|--------------------|--|-----------------|-----------------|
| | | FBP (10-110) | NBZ (10-110) | TPH (20-110) |
| 310-80618-1 | SB-5 (2-3.5) | 75 | 57 | 79 |
| 310-80618-2 | SB-6 (2-3.5) | 71 | 49 | 93 |
| 310-80618-3 | SB-7 (2-3.5) | 20 | 13 | 24 |
| 310-80618-4 | SB-1 (0-1.5) | 78 | 58 | 84 |
| 310-80618-5 | SB-2 (2-3.5) | 72 | 53 | 78 |
| 310-80618-6 | SB-3 (4.5-6) | 69 | 54 | 70 |
| 310-80618-7 | SB-4 (2-3.5) | 79 | 62 | 78 |
| 310-80618-8 | SB-8 (4.5-6) | 68 | 52 | 69 |
| LCS 310-127606/2-A | Lab Control Sample | 63 | 55 | 72 |
| MB 310-127606/1-A | Method Blank | 70 | 60 | 76 |

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPH = Terphenyl-d14 (Surr)

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|---------------|------------------|--|------------------|
| | | DCB1 (10-110) | TCX1 (10-110) |
| 310-80618-1 | SB-5 (2-3.5) | 48 | 50 |
| 310-80618-2 | SB-6 (2-3.5) | 71 | 62 |
| 310-80618-3 | SB-7 (2-3.5) | 66 | 61 |

TestAmerica Cedar Falls

Surrogate Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | |
|--------------------|--------------------|--|------------------|
| | | DCB1 (10-110) | TCX1 (10-110) |
| 310-80618-4 | SB-1 (0-1.5) | 65 | 63 |
| 310-80618-5 | SB-2 (2-3.5) | 65 | 62 |
| 310-80618-6 | SB-3 (4.5-6) | 57 | 53 |
| 310-80618-7 | SB-4 (2-3.5) | 59 | 54 |
| 310-80618-8 | SB-8 (4.5-6) | 64 | 60 |
| LCS 310-127604/2-A | Lab Control Sample | 102 | 92 |
| LCS 310-128653/2-A | Lab Control Sample | 49 | 45 |
| MB 310-127604/1-A | Method Blank | 111 X | 107 |
| MB 310-128653/1-A | Method Blank | 51 | 52 |

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

TCX = Tetrachloro-m-xylene

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 310-127938/1-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127938

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------------|-----------------|--------|-----|-------|----------------|----------------|----------|---------|
| Acetone | <0.457 | | 0.457 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Allyl chloride | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Benzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Bromobenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Bromoform | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Bromomethane | <0.457 | | 0.457 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 2-Butanone (MEK) | <0.228 | | 0.228 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Carbon tetrachloride | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Chlorobenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Chlorodibromomethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Chloroethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Chloroform | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Chloromethane | <0.228 | | 0.228 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 2-Chlorotoluene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 4-Chlorotoluene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| cis-1,2-Dichloroethene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| cis-1,3-Dichloropropene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,2-Dibromo-3-Chloropropane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,2-Dibromoethane (EDB) | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Dibromomethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,2-Dichlorobenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,3-Dichlorobenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,4-Dichlorobenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Dichlorodifluoromethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,1-Dichloroethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,2-Dichloroethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,1-Dichloroethene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Dichlorofluoromethane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,2-Dichloropropane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,3-Dichloropropane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 2,2-Dichloropropane | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 1,1-Dichloropropene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Diethyl ether | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Ethylbenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Hexachlorobutadiene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Isopropylbenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Methylene Chloride | <0.228 | | 0.228 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Methyl tert-butyl ether | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Naphthalene | <0.228 | | 0.228 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| n-Butylbenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| N-Propylbenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| p-Isopropyltoluene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| sec-Butylbenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| Styrene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |
| tert-Butylbenzene | <0.0914 | | 0.0914 | | mg/Kg | 05/18/16 07:38 | 05/18/16 21:55 | | 1 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 310-127938/1-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127938

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|--------------|-----------------|--------|-----|-------|---|----------------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,1,2,2-Tetrachloroethane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Tetrachloroethylene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Tetrahydrofuran | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Toluene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| trans-1,2-Dichloroethene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| trans-1,3-Dichloropropene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,2,3-Trichlorobenzene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,2,4-Trichlorobenzene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,1,1-Trichloroethane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,1,2-Trichloroethane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Trichloroethylene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Trichlorofluoromethane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,2,3-Trichloropropane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,1,2-Trichlorotrifluoroethane | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,2,4-Trimethylbenzene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| 1,3,5-Trimethylbenzene | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Vinyl chloride | <0.0914 | | 0.0914 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |
| Xylenes, Total | <0.137 | | 0.137 | | mg/Kg | | 05/18/16 07:38 | 05/18/16 21:55 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | MB Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------------|-----------------|--------------|----------|----------|---------|
| 4-Bromofluorobenzene (Surr) | 98 | | 70 - 135 | | | 1 |
| Dibromofluoromethane (Surr) | 93 | | 80 - 120 | | | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | | 1 |

Lab Sample ID: LCS 310-127938/2-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127938

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limts | %Rec. |
|-----------------------------|----------------|---------------|------------------|-------|---|------|----------|-------|
| Acetone | 1.84 | 2.150 | | mg/Kg | | 117 | 70 - 150 | |
| Allyl chloride | 0.919 | 1.013 | | mg/Kg | | 110 | 65 - 150 | |
| Benzene | 0.919 | 1.027 | | mg/Kg | | 112 | 65 - 145 | |
| Bromobenzene | 0.919 | 1.006 | | mg/Kg | | 109 | 65 - 135 | |
| Bromochloromethane | 0.919 | 1.056 | | mg/Kg | | 115 | 65 - 150 | |
| Bromodichloromethane | 0.919 | 0.9908 | | mg/Kg | | 108 | 55 - 150 | |
| Bromoform | 0.919 | 0.8720 | | mg/Kg | | 95 | 55 - 135 | |
| 2-Butanone (MEK) | 1.84 | 1.960 | | mg/Kg | | 107 | 55 - 150 | |
| Carbon tetrachloride | 0.919 | 0.9959 | | mg/Kg | | 108 | 60 - 145 | |
| Chlorobenzene | 0.919 | 1.021 | | mg/Kg | | 111 | 70 - 135 | |
| Chlorodibromomethane | 0.919 | 0.9430 | | mg/Kg | | 103 | 55 - 135 | |
| Chloroform | 0.919 | 0.9990 | | mg/Kg | | 109 | 65 - 145 | |
| 2-Chlorotoluene | 0.919 | 1.001 | | mg/Kg | | 109 | 70 - 130 | |
| 4-Chlorotoluene | 0.919 | 0.9963 | | mg/Kg | | 108 | 70 - 130 | |
| cis-1,2-Dichloroethene | 0.919 | 1.008 | | mg/Kg | | 110 | 65 - 145 | |
| cis-1,3-Dichloropropene | 0.919 | 0.9991 | | mg/Kg | | 109 | 65 - 140 | |
| 1,2-Dibromo-3-Chloropropane | 0.919 | 0.8645 | | mg/Kg | | 94 | 45 - 140 | |
| 1,2-Dibromoethane (EDB) | 0.919 | 1.011 | | mg/Kg | | 110 | 65 - 140 | |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 310-127938/2-A

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127938

%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits |
|--------------------------------|-------------|------------|---------------|-------|---|------|----------|
| Dibromomethane | 0.919 | 1.049 | | mg/Kg | | 114 | 65 - 150 |
| 1,2-Dichlorobenzene | 0.919 | 1.015 | | mg/Kg | | 110 | 65 - 135 |
| 1,3-Dichlorobenzene | 0.919 | 1.033 | | mg/Kg | | 112 | 65 - 135 |
| 1,4-Dichlorobenzene | 0.919 | 1.001 | | mg/Kg | | 109 | 65 - 135 |
| 1,1-Dichloroethane | 0.919 | 1.014 | | mg/Kg | | 110 | 65 - 150 |
| 1,2-Dichloroethane | 0.919 | 1.005 | | mg/Kg | | 109 | 60 - 150 |
| 1,1-Dichloroethene | 0.919 | 1.005 | | mg/Kg | | 109 | 65 - 145 |
| 1,2-Dichloropropane | 0.919 | 1.010 | | mg/Kg | | 110 | 65 - 150 |
| 1,3-Dichloropropane | 0.919 | 1.012 | | mg/Kg | | 110 | 65 - 140 |
| 2,2-Dichloropropane | 0.919 | 0.9508 | | mg/Kg | | 103 | 65 - 150 |
| 1,1-Dichloropropene | 0.919 | 1.020 | | mg/Kg | | 111 | 70 - 140 |
| Diethyl ether | 0.919 | 1.048 | | mg/Kg | | 114 | 60 - 150 |
| Ethylbenzene | 0.919 | 1.044 | | mg/Kg | | 114 | 70 - 135 |
| Hexachlorobutadiene | 0.919 | 0.9781 | | mg/Kg | | 106 | 50 - 145 |
| Isopropylbenzene | 0.919 | 1.043 | | mg/Kg | | 114 | 70 - 135 |
| Methylene Chloride | 0.919 | 1.026 | | mg/Kg | | 112 | 55 - 150 |
| 4-Methyl-2-pentanone (MIBK) | 1.84 | 2.055 | | mg/Kg | | 112 | 50 - 145 |
| Methyl tert-butyl ether | 0.919 | 1.050 | | mg/Kg | | 114 | 65 - 150 |
| Naphthalene | 0.919 | 0.9781 | | mg/Kg | | 106 | 50 - 145 |
| n-Butylbenzene | 0.919 | 1.010 | | mg/Kg | | 110 | 65 - 135 |
| N-Propylbenzene | 0.919 | 1.036 | | mg/Kg | | 113 | 70 - 135 |
| p-Isopropyltoluene | 0.919 | 1.003 | | mg/Kg | | 109 | 65 - 135 |
| sec-Butylbenzene | 0.919 | 1.011 | | mg/Kg | | 110 | 65 - 130 |
| Styrene | 0.919 | 1.011 | | mg/Kg | | 110 | 70 - 135 |
| tert-Butylbenzene | 0.919 | 0.9962 | | mg/Kg | | 108 | 65 - 135 |
| 1,1,1,2-Tetrachloroethane | 0.919 | 1.015 | | mg/Kg | | 110 | 65 - 130 |
| 1,1,2,2-Tetrachloroethane | 0.919 | 1.043 | | mg/Kg | | 113 | 60 - 140 |
| Tetrachloroethene | 0.919 | 1.057 | | mg/Kg | | 115 | 65 - 140 |
| Tetrahydrofuran | 1.84 | 2.096 | | mg/Kg | | 114 | 55 - 150 |
| Toluene | 0.919 | 1.043 | | mg/Kg | | 114 | 70 - 135 |
| trans-1,2-Dichloroethene | 0.919 | 1.024 | | mg/Kg | | 111 | 65 - 145 |
| trans-1,3-Dichloropropene | 0.919 | 1.002 | | mg/Kg | | 109 | 65 - 140 |
| 1,2,3-Trichlorobenzene | 0.919 | 1.009 | | mg/Kg | | 110 | 55 - 140 |
| 1,2,4-Trichlorobenzene | 0.919 | 1.001 | | mg/Kg | | 109 | 50 - 140 |
| 1,1,1-Trichloroethane | 0.919 | 1.011 | | mg/Kg | | 110 | 65 - 145 |
| 1,1,2-Trichloroethane | 0.919 | 1.019 | | mg/Kg | | 111 | 65 - 140 |
| Trichloroethene | 0.919 | 1.049 | | mg/Kg | | 114 | 65 - 145 |
| 1,2,3-Trichloropropane | 0.919 | 1.049 | | mg/Kg | | 114 | 60 - 140 |
| 1,1,2-Trichlorotrifluoroethane | 0.919 | 1.033 | | mg/Kg | | 112 | 60 - 150 |
| 1,2,4-Trimethylbenzene | 0.919 | 0.9839 | | mg/Kg | | 107 | 65 - 130 |
| 1,3,5-Trimethylbenzene | 0.919 | 0.9828 | | mg/Kg | | 107 | 70 - 130 |
| Xylenes, Total | 1.84 | 2.022 | | mg/Kg | | 110 | 70 - 135 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Sur) | 101 | | 70 - 135 |
| Dibromofluoromethane (Sur) | 101 | | 80 - 120 |
| Toluene-d8 (Sur) | 101 | | 80 - 120 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 310-80618-2 MS

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits |
|-----------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Acetone | <0.552 | | 2.04 | 1.725 | | mg/Kg | ⊗ | 84 | 70 - 150 |
| Allyl chloride | <0.110 | | 1.02 | 0.8868 | | mg/Kg | ⊗ | 87 | 65 - 150 |
| Benzene | <0.110 | | 1.02 | 0.9489 | | mg/Kg | ⊗ | 93 | 65 - 145 |
| Bromobenzene | <0.110 | | 1.02 | 0.9407 | | mg/Kg | ⊗ | 92 | 65 - 135 |
| Bromochloromethane | <0.110 | | 1.02 | 0.9280 | | mg/Kg | ⊗ | 91 | 65 - 150 |
| Bromodichloromethane | <0.110 | | 1.02 | 0.8962 | | mg/Kg | ⊗ | 88 | 55 - 105 |
| Bromoform | <0.110 | | 1.02 | 0.7418 | | mg/Kg | ⊗ | 73 | 55 - 135 |
| 2-Butanone (MEK) | <0.276 | | 2.04 | 1.571 | | mg/Kg | ⊗ | 77 | 55 - 150 |
| Carbon tetrachloride | <0.110 | | 1.02 | 0.9209 | | mg/Kg | ⊗ | 90 | 60 - 145 |
| Chlorobenzene | <0.110 | | 1.02 | 0.9383 | | mg/Kg | ⊗ | 92 | 70 - 135 |
| Chlorodibromomethane | <0.110 | | 1.02 | 0.7994 | | mg/Kg | ⊗ | 78 | 55 - 135 |
| Chloroform | <0.110 | | 1.02 | 0.9409 | | mg/Kg | ⊗ | 92 | 65 - 145 |
| 2-Chlorotoluene | <0.110 | | 1.02 | 0.9204 | | mg/Kg | ⊗ | 90 | 70 - 130 |
| 4-Chlorotoluene | <0.110 | | 1.02 | 0.9378 | | mg/Kg | ⊗ | 92 | 70 - 130 |
| cis-1,2-Dichloroethene | <0.110 | | 1.02 | 0.9360 | | mg/Kg | ⊗ | 92 | 65 - 145 |
| cis-1,3-Dichloropropene | <0.110 | | 1.02 | 0.8967 | | mg/Kg | ⊗ | 88 | 65 - 140 |
| 1,2-Dibromo-3-Chloropropane | <0.110 | F1 F2 | 1.02 | 0.3845 | F1 | mg/Kg | ⊗ | 38 | 45 - 140 |
| 1,2-Dibromoethane (EDB) | <0.110 | | 1.02 | 0.8982 | | mg/Kg | ⊗ | 88 | 65 - 140 |
| Dibromomethane | <0.110 | | 1.02 | 0.8963 | | mg/Kg | ⊗ | 88 | 65 - 150 |
| 1,2-Dichlorobenzene | <0.110 | | 1.02 | 0.9580 | | mg/Kg | ⊗ | 94 | 65 - 135 |
| 1,3-Dichlorobenzene | <0.110 | | 1.02 | 0.9381 | | mg/Kg | ⊗ | 92 | 65 - 135 |
| 1,4-Dichlorobenzene | <0.110 | | 1.02 | 0.9651 | | mg/Kg | ⊗ | 94 | 65 - 135 |
| 1,1-Dichloroethane | <0.110 | | 1.02 | 0.9498 | | mg/Kg | ⊗ | 93 | 65 - 150 |
| 1,2-Dichloroethane | <0.110 | | 1.02 | 0.9121 | | mg/Kg | ⊗ | 89 | 60 - 150 |
| 1,1-Dichloroethene | <0.110 | | 1.02 | 0.9270 | | mg/Kg | ⊗ | 91 | 65 - 145 |
| 1,2-Dichloropropane | <0.110 | | 1.02 | 0.9272 | | mg/Kg | ⊗ | 91 | 65 - 150 |
| 1,3-Dichloropropane | <0.110 | | 1.02 | 0.9203 | | mg/Kg | ⊗ | 90 | 65 - 140 |
| 2,2-Dichloropropane | <0.110 | | 1.02 | 0.8142 | | mg/Kg | ⊗ | 80 | 65 - 150 |
| 1,1-Dichloropropene | <0.110 | | 1.02 | 0.9564 | | mg/Kg | ⊗ | 94 | 70 - 140 |
| Diethyl ether | <0.110 | | 1.02 | 0.9133 | | mg/Kg | ⊗ | 89 | 60 - 150 |
| Ethylbenzene | <0.110 | | 1.02 | 0.9654 | | mg/Kg | ⊗ | 95 | 70 - 135 |
| Hexachlorobutadiene | <0.110 | | 1.02 | 0.9360 | | mg/Kg | ⊗ | 92 | 50 - 145 |
| Isopropylbenzene | <0.110 | | 1.02 | 0.9714 | | mg/Kg | ⊗ | 95 | 70 - 135 |
| Methylene Chloride | <0.276 | | 1.02 | 0.9693 | | mg/Kg | ⊗ | 95 | 55 - 150 |
| 4-Methyl-2-pentanone (MIBK) | <0.110 | | 2.04 | 1.707 | | mg/Kg | ⊗ | 84 | 50 - 145 |
| Methyl tert-butyl ether | <0.110 | | 1.02 | 0.9060 | | mg/Kg | ⊗ | 89 | 65 - 150 |
| Naphthalene | <0.276 | | 1.02 | 0.8520 | | mg/Kg | ⊗ | 83 | 50 - 145 |
| n-Butylbenzene | <0.110 | | 1.02 | 0.9484 | | mg/Kg | ⊗ | 93 | 65 - 135 |
| N-Propylbenzene | <0.110 | | 1.02 | 0.9749 | | mg/Kg | ⊗ | 95 | 70 - 135 |
| p-Isopropyltoluene | <0.110 | | 1.02 | 0.9454 | | mg/Kg | ⊗ | 93 | 65 - 135 |
| sec-Butylbenzene | <0.110 | | 1.02 | 0.9356 | | mg/Kg | ⊗ | 92 | 65 - 130 |
| Styrene | <0.110 | | 1.02 | 0.9297 | | mg/Kg | ⊗ | 91 | 70 - 135 |
| tert-Butylbenzene | <0.110 | | 1.02 | 0.9142 | | mg/Kg | ⊗ | 90 | 65 - 135 |
| 1,1,1,2-Tetrachloroethane | <0.110 | | 1.02 | 0.9144 | | mg/Kg | ⊗ | 90 | 65 - 130 |
| 1,1,2,2-Tetrachloroethane | <0.110 | | 1.02 | 0.9302 | | mg/Kg | ⊗ | 91 | 60 - 140 |
| Tetrachloroethene | <0.110 | | 1.02 | 1.050 | | mg/Kg | ⊗ | 103 | 65 - 140 |
| Tetrahydrofuran | <0.110 | | 2.04 | 1.763 | | mg/Kg | ⊗ | 86 | 55 - 150 |
| Toluene | <0.110 | | 1.02 | 0.9692 | | mg/Kg | ⊗ | 95 | 70 - 135 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 310-80618-2 MS

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | Limits |
|--------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|----------|
| trans-1,2-Dichloroethene | <0.110 | | 1.02 | 0.9492 | | mg/Kg | ⊗ | 93 | 65 - 145 |
| trans-1,3-Dichloropropene | <0.110 | | 1.02 | 0.8585 | | mg/Kg | ⊗ | 84 | 65 - 140 |
| 1,2,3-Trichlorobenzene | <0.110 | | 1.02 | 0.9050 | | mg/Kg | ⊗ | 89 | 55 - 140 |
| 1,2,4-Trichlorobenzene | <0.110 | | 1.02 | 0.9173 | | mg/Kg | ⊗ | 90 | 50 - 140 |
| 1,1,1-Trichloroethane | <0.110 | | 1.02 | 0.9466 | | mg/Kg | ⊗ | 93 | 65 - 145 |
| 1,1,2-Trichloroethane | <0.110 | | 1.02 | 0.9320 | | mg/Kg | ⊗ | 91 | 65 - 140 |
| Trichloroethene | <0.110 | | 1.02 | 0.9830 | | mg/Kg | ⊗ | 96 | 65 - 145 |
| 1,2,3-Trichloropropane | <0.110 | | 1.02 | 0.9519 | | mg/Kg | ⊗ | 93 | 60 - 140 |
| 1,1,2-Trichlorotrifluoroethane | <0.110 | | 1.02 | 0.9719 | | mg/Kg | ⊗ | 95 | 60 - 150 |
| 1,2,4-Trimethylbenzene | <0.110 | | 1.02 | 0.9269 | | mg/Kg | ⊗ | 91 | 65 - 130 |
| 1,3,5-Trimethylbenzene | <0.110 | | 1.02 | 0.9063 | | mg/Kg | ⊗ | 89 | 70 - 130 |
| Xylenes, Total | <0.166 | | 2.04 | 1.894 | | mg/Kg | ⊗ | 93 | 70 - 135 |

MS MS

| Surrogate | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 4-Bromofluorobenzene (Surr) | 100 | | 70 - 135 |
| Dibromofluoromethane (Surr) | 101 | | 80 - 120 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 |

Lab Sample ID: 310-80618-2 MSD

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

%Rec.

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
|-----------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|----------|-----|-------|
| Acetone | <0.552 | | 2.10 | 1.757 | | mg/Kg | ⊗ | 84 | 70 - 150 | 2 | 40 |
| Allyl chloride | <0.110 | | 1.05 | 0.9076 | | mg/Kg | ⊗ | 86 | 65 - 150 | 2 | 35 |
| Benzene | <0.110 | | 1.05 | 0.9501 | | mg/Kg | ⊗ | 91 | 65 - 145 | 0 | 15 |
| Bromobenzene | <0.110 | | 1.05 | 0.9377 | | mg/Kg | ⊗ | 89 | 65 - 135 | 0 | 20 |
| Bromoform | <0.110 | | 1.05 | 0.9420 | | mg/Kg | ⊗ | 90 | 65 - 150 | 2 | 20 |
| Bromochloromethane | <0.110 | | 1.05 | 0.9013 | | mg/Kg | ⊗ | 86 | 55 - 105 | 1 | 20 |
| Bromodichloromethane | <0.110 | | 1.05 | 0.7836 | | mg/Kg | ⊗ | 75 | 55 - 135 | 5 | 25 |
| 2-Butanone (MEK) | <0.276 | | 2.10 | 1.662 | | mg/Kg | ⊗ | 79 | 55 - 150 | 6 | 30 |
| Carbon tetrachloride | <0.110 | | 1.05 | 0.9224 | | mg/Kg | ⊗ | 88 | 60 - 145 | 0 | 30 |
| Chlorobenzene | <0.110 | | 1.05 | 0.9305 | | mg/Kg | ⊗ | 89 | 70 - 135 | 1 | 15 |
| Chlorodibromomethane | <0.110 | | 1.05 | 0.8166 | | mg/Kg | ⊗ | 78 | 55 - 135 | 2 | 20 |
| Chloroform | <0.110 | | 1.05 | 0.9374 | | mg/Kg | ⊗ | 89 | 65 - 145 | 0 | 20 |
| 2-Chlorotoluene | <0.110 | | 1.05 | 0.9064 | | mg/Kg | ⊗ | 86 | 70 - 130 | 2 | 15 |
| 4-Chlorotoluene | <0.110 | | 1.05 | 0.9170 | | mg/Kg | ⊗ | 87 | 70 - 130 | 2 | 20 |
| cis-1,2-Dichloroethene | <0.110 | | 1.05 | 0.9279 | | mg/Kg | ⊗ | 88 | 65 - 145 | 1 | 20 |
| cis-1,3-Dichloropropene | <0.110 | | 1.05 | 0.8966 | | mg/Kg | ⊗ | 85 | 65 - 140 | 0 | 20 |
| 1,2-Dibromo-3-Chloropropane | <0.110 | F1 F2 | 1.05 | 0.8547 | F2 | mg/Kg | ⊗ | 81 | 45 - 140 | 76 | 40 |
| 1,2-Dibromoethane (EDB) | <0.110 | | 1.05 | 0.9291 | | mg/Kg | ⊗ | 89 | 65 - 140 | 3 | 20 |
| Dibromomethane | <0.110 | | 1.05 | 0.9249 | | mg/Kg | ⊗ | 88 | 65 - 150 | 3 | 25 |
| 1,2-Dichlorobenzene | <0.110 | | 1.05 | 0.9551 | | mg/Kg | ⊗ | 91 | 65 - 135 | 0 | 20 |
| 1,3-Dichlorobenzene | <0.110 | | 1.05 | 0.9306 | | mg/Kg | ⊗ | 89 | 65 - 135 | 1 | 20 |
| 1,4-Dichlorobenzene | <0.110 | | 1.05 | 0.9373 | | mg/Kg | ⊗ | 89 | 65 - 135 | 3 | 20 |
| 1,1-Dichloroethane | <0.110 | | 1.05 | 0.9328 | | mg/Kg | ⊗ | 89 | 65 - 150 | 2 | 20 |
| 1,2-Dichloroethane | <0.110 | | 1.05 | 0.9192 | | mg/Kg | ⊗ | 88 | 60 - 150 | 1 | 20 |
| 1,1-Dichloroethene | <0.110 | | 1.05 | 0.9248 | | mg/Kg | ⊗ | 88 | 65 - 145 | 0 | 20 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 310-80618-2 MSD

Matrix: Solid

Analysis Batch: 127941

Client Sample ID: SB-6 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127938

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | Limit |
|--------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| 1,2-Dichloropropane | <0.110 | | 1.05 | 0.9344 | | mg/Kg | ⊗ | 89 | 65 - 150 | 1 | 15 |
| 1,3-Dichloropropane | <0.110 | | 1.05 | 0.9213 | | mg/Kg | ⊗ | 88 | 65 - 140 | 0 | 20 |
| 2,2-Dichloropropane | <0.110 | | 1.05 | 0.8121 | | mg/Kg | ⊗ | 77 | 65 - 150 | 0 | 20 |
| 1,1-Dichloropropene | <0.110 | | 1.05 | 0.9664 | | mg/Kg | ⊗ | 92 | 70 - 140 | 1 | 20 |
| Diethyl ether | <0.110 | | 1.05 | 0.9408 | | mg/Kg | ⊗ | 90 | 60 - 150 | 3 | 25 |
| Ethylbenzene | <0.110 | | 1.05 | 0.9709 | | mg/Kg | ⊗ | 93 | 70 - 135 | 1 | 20 |
| Hexachlorobutadiene | <0.110 | | 1.05 | 0.9521 | | mg/Kg | ⊗ | 91 | 50 - 145 | 2 | 25 |
| Isopropylbenzene | <0.110 | | 1.05 | 0.9694 | | mg/Kg | ⊗ | 92 | 70 - 135 | 0 | 20 |
| Methylene Chloride | <0.276 | | 1.05 | 0.9672 | | mg/Kg | ⊗ | 92 | 55 - 150 | 0 | 25 |
| 4-Methyl-2-pentanone (MIBK) | <0.110 | | 2.10 | 1.802 | | mg/Kg | ⊗ | 86 | 50 - 145 | 5 | 40 |
| Methyl tert-butyl ether | <0.110 | | 1.05 | 0.9367 | | mg/Kg | ⊗ | 89 | 65 - 150 | 3 | 20 |
| Naphthalene | <0.276 | | 1.05 | 0.9278 | | mg/Kg | ⊗ | 88 | 50 - 145 | 9 | 30 |
| n-Butylbenzene | <0.110 | | 1.05 | 0.9254 | | mg/Kg | ⊗ | 88 | 65 - 135 | 2 | 20 |
| N-Propylbenzene | <0.110 | | 1.05 | 0.9599 | | mg/Kg | ⊗ | 91 | 70 - 135 | 2 | 20 |
| p-Isopropyltoluene | <0.110 | | 1.05 | 0.9196 | | mg/Kg | ⊗ | 88 | 65 - 135 | 3 | 20 |
| sec-Butylbenzene | <0.110 | | 1.05 | 0.9154 | | mg/Kg | ⊗ | 87 | 65 - 130 | 2 | 20 |
| Styrene | <0.110 | | 1.05 | 0.9305 | | mg/Kg | ⊗ | 89 | 70 - 135 | 0 | 20 |
| tert-Butylbenzene | <0.110 | | 1.05 | 0.8905 | | mg/Kg | ⊗ | 85 | 65 - 135 | 3 | 20 |
| 1,1,1,2-Tetrachloroethane | <0.110 | | 1.05 | 0.9096 | | mg/Kg | ⊗ | 87 | 65 - 130 | 1 | 20 |
| 1,1,2,2-Tetrachloroethane | <0.110 | | 1.05 | 1.003 | | mg/Kg | ⊗ | 96 | 60 - 140 | 8 | 25 |
| Tetrachloroethene | <0.110 | | 1.05 | 1.045 | | mg/Kg | ⊗ | 100 | 65 - 140 | 1 | 25 |
| Tetrahydrofuran | <0.110 | | 2.10 | 1.881 | | mg/Kg | ⊗ | 90 | 55 - 150 | 6 | 30 |
| Toluene | <0.110 | | 1.05 | 0.9647 | | mg/Kg | ⊗ | 92 | 70 - 135 | 0 | 20 |
| trans-1,2-Dichloroethene | <0.110 | | 1.05 | 0.9603 | | mg/Kg | ⊗ | 92 | 65 - 145 | 1 | 20 |
| trans-1,3-Dichloropropene | <0.110 | | 1.05 | 0.8633 | | mg/Kg | ⊗ | 82 | 65 - 140 | 1 | 20 |
| 1,2,3-Trichlorobenzene | <0.110 | | 1.05 | 0.9485 | | mg/Kg | ⊗ | 90 | 55 - 140 | 5 | 25 |
| 1,2,4-Trichlorobenzene | <0.110 | | 1.05 | 0.9573 | | mg/Kg | ⊗ | 91 | 50 - 140 | 4 | 25 |
| 1,1,1-Trichloroethane | <0.110 | | 1.05 | 0.9415 | | mg/Kg | ⊗ | 90 | 65 - 145 | 1 | 20 |
| 1,1,2-Trichloroethane | <0.110 | | 1.05 | 0.9469 | | mg/Kg | ⊗ | 90 | 65 - 140 | 2 | 20 |
| Trichloroethene | <0.110 | | 1.05 | 0.9764 | | mg/Kg | ⊗ | 93 | 65 - 145 | 1 | 20 |
| 1,2,3-Trichloropropane | <0.110 | | 1.05 | 0.9377 | | mg/Kg | ⊗ | 89 | 60 - 140 | 2 | 30 |
| 1,1,2-Trichlorotrifluoroethane | <0.110 | | 1.05 | 0.9634 | | mg/Kg | ⊗ | 92 | 60 - 150 | 1 | 40 |
| 1,2,4-Trimethylbenzene | <0.110 | | 1.05 | 0.9183 | | mg/Kg | ⊗ | 87 | 65 - 130 | 1 | 20 |
| 1,3,5-Trimethylbenzene | <0.110 | | 1.05 | 0.9015 | | mg/Kg | ⊗ | 86 | 70 - 130 | 1 | 20 |
| Xylenes, Total | <0.166 | | 2.10 | 1.909 | | mg/Kg | ⊗ | 91 | 70 - 135 | 1 | 20 |

| Surrogate | MSD | MSD | Limits |
|----------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 4-Bromofluorobenzene (Surrogate) | 99 | | 70 - 135 |
| Dibromofluoromethane (Surrogate) | 98 | | 80 - 120 |
| Toluene-d8 (Surrogate) | 101 | | 80 - 120 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL)

Lab Sample ID: MB 310-127606/1-A

Matrix: Solid

Analysis Batch: 127803

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 127606

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------|----------|-----------|-----------|-----------|--------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | | | | |
| Acenaphthene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Acenaphthylene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Anthracene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Benzo[a]anthracene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Benzo[a]pyrene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Benzo[b]fluoranthene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Benzo[g,h,i]perylene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Benzo[k]fluoranthene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Chrysene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Dibenz(a,h)anthracene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Fluoranthene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Fluorene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Indeno[1,2,3-cd]pyrene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| 2-Methylnaphthalene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Naphthalene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Phenanthrene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Pyrene | <0.00944 | | 0.00944 | | mg/Kg | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Surrogate | MB | MB | %Recovery | Qualifier | Limits | D | Prepared | Analyzed | Dil Fac |
| | | | | | | | | | |
| 2-Fluorobiphenyl (Surr) | 70 | | 10 - 110 | | | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Nitrobenzene-d5 (Surr) | 60 | | 10 - 110 | | | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |
| Terphenyl-d14 (Surr) | 76 | | 20 - 110 | | | 05/13/16 19:34 | 05/17/16 14:14 | | 1 |

Lab Sample ID: LCS 310-127606/2-A

Matrix: Solid

Analysis Batch: 127803

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 127606

| Analyte | Spike | LC S | LC S | Unit | D | %Rec | Limits | %Rec. |
|------------------------|-------|---------|-----------|-------|----|----------|--------|-------|
| | Added | Result | Qualifier | | | | | |
| Acenaphthene | 0.188 | 0.08576 | | mg/Kg | 46 | 20 - 110 | | |
| Acenaphthylene | 0.188 | 0.09680 | | mg/Kg | 52 | 20 - 110 | | |
| Anthracene | 0.188 | 0.1158 | | mg/Kg | 62 | 30 - 110 | | |
| Benzo[a]anthracene | 0.188 | 0.1247 | | mg/Kg | 66 | 50 - 110 | | |
| Benzo[a]pyrene | 0.188 | 0.1213 | | mg/Kg | 65 | 45 - 110 | | |
| Benzo[b]fluoranthene | 0.188 | 0.1265 | | mg/Kg | 67 | 40 - 110 | | |
| Benzo[g,h,i]perylene | 0.188 | 0.1288 | | mg/Kg | 69 | 20 - 110 | | |
| Benzo[k]fluoranthene | 0.188 | 0.1042 | | mg/Kg | 56 | 45 - 110 | | |
| Chrysene | 0.188 | 0.1079 | | mg/Kg | 58 | 45 - 110 | | |
| Dibenz(a,h)anthracene | 0.188 | 0.1292 | | mg/Kg | 69 | 10 - 110 | | |
| Fluoranthene | 0.188 | 0.1219 | | mg/Kg | 65 | 40 - 110 | | |
| Fluorene | 0.188 | 0.08913 | | mg/Kg | 48 | 25 - 110 | | |
| Indeno[1,2,3-cd]pyrene | 0.188 | 0.1301 | | mg/Kg | 69 | 40 - 110 | | |
| 2-Methylnaphthalene | 0.188 | 0.1070 | | mg/Kg | 57 | 15 - 110 | | |
| Naphthalene | 0.188 | 0.1147 | | mg/Kg | 61 | 15 - 110 | | |
| Phenanthrene | 0.188 | 0.1084 | | mg/Kg | 58 | 25 - 110 | | |
| Pyrene | 0.188 | 0.1153 | | mg/Kg | 61 | 40 - 110 | | |

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 8270D SIM - Semivolatile Organic Compound (GC/MS SIM LL) (Continued)

Lab Sample ID: LCS 310-127606/2-A

Matrix: Solid

Analysis Batch: 127803

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127606

| Surrogate | LCS | LCS | |
|------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | Limits |
| 2-Fluorobiphenyl (Sur) | 63 | | 10 - 110 |
| Nitrobenzene-d5 (Sur) | 55 | | 10 - 110 |
| Terphenyl-d14 (Sur) | 72 | | 20 - 110 |

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 310-127604/1-A

Matrix: Solid

Analysis Batch: 127842

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127604

| Analyte | MB | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|---------|-----------|--|--------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| PCB-1016 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1221 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1232 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1242 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1248 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1254 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1260 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| PCB-1268 | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| Polychlorinated biphenyls, Total | <0.0497 | | | 0.0497 | | mg/Kg | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |

| Surrogate | MB | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|--|----------|-----|------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| DCB Decachlorobiphenyl (Sur) | 111 | X | | 10 - 110 | | | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |
| Tetrachloro-m-xylene | 107 | | | 10 - 110 | | | | 05/13/16 19:31 | 05/17/16 16:12 | 1 |

Lab Sample ID: LCS 310-127604/2-A

Matrix: Solid

Analysis Batch: 127842

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127604

| Analyte | Spike | LCS | LCS | | %Rec. |
|----------|-------|--------|-----------|-------|-------|
| | Added | Result | Qualifier | Unit | D |
| PCB-1016 | 0.195 | 0.2676 | * | mg/Kg | 137 |
| PCB-1260 | 0.195 | 0.2664 | * | mg/Kg | 137 |

| Surrogate | LCS | LCS | | RL | MDL | Unit | D | %Rec | Limits |
|------------------------------|--------|-----------|--|----------|-----|------|---|------|--------|
| | Result | Qualifier | | | | | | | |
| DCB Decachlorobiphenyl (Sur) | 102 | | | 10 - 110 | | | | | |
| Tetrachloro-m-xylene | 92 | | | 10 - 110 | | | | | |

Lab Sample ID: MB 310-128653/1-A

Matrix: Solid

Analysis Batch: 128658

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 128653

| Analyte | MB | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|---------|-----------|--|--------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | | |
| PCB-1016 | <0.0492 | | | 0.0492 | | mg/Kg | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |
| PCB-1221 | <0.0492 | | | 0.0492 | | mg/Kg | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |
| PCB-1232 | <0.0492 | | | 0.0492 | | mg/Kg | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |
| PCB-1242 | <0.0492 | | | 0.0492 | | mg/Kg | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |
| PCB-1248 | <0.0492 | | | 0.0492 | | mg/Kg | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Method: 8082A - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 310-128653/1-A

Matrix: Solid

Analysis Batch: 128658

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 128653

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------------------------------|---------|-----------|--------|-----------|--------|--------|-------|----------------|----------------|----------|---------|
| | Result | Qualifier | | | | | | | Prepared | Analyzed | Dil Fac |
| PCB-1254 | <0.0492 | | 0.0492 | | 0.0492 | 0.0492 | mg/Kg | 05/24/16 10:09 | 05/24/16 17:48 | | 1 |
| PCB-1260 | <0.0492 | | 0.0492 | | 0.0492 | 0.0492 | mg/Kg | 05/24/16 10:09 | 05/24/16 17:48 | | 1 |
| PCB-1268 | <0.0492 | | 0.0492 | | 0.0492 | 0.0492 | mg/Kg | 05/24/16 10:09 | 05/24/16 17:48 | | 1 |
| Polychlorinated biphenyls, Total | <0.0492 | | 0.0492 | | 0.0492 | 0.0492 | mg/Kg | 05/24/16 10:09 | 05/24/16 17:48 | | 1 |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|-----------|-----------|--------|----------------|----------------|---------|
| | Result | Qualifier | | | | | | |
| DCB Decachlorobiphenyl (Surrogate) | 51 | | 51 | 10 - 110 | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |
| Tetrachloro-m-xylene | 52 | | 52 | 10 - 110 | | 05/24/16 10:09 | 05/24/16 17:48 | 1 |

Lab Sample ID: LCS 310-128653/2-A

Matrix: Solid

Analysis Batch: 128658

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 128653

| Analyte | MB | MB | Spike Added | Result | LCS Qualifier | Unit | D | %Rec | Limits | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------------|---------|---------------|-------|---|------|----------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | | | |
| PCB-1016 | | | 0.199 | 0.1018 | | mg/Kg | | 51 | 35 - 110 | | | |
| PCB-1260 | | | 0.199 | 0.08752 | | mg/Kg | | 44 | 35 - 115 | | | |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------------|--------|-----------|-----------|-----------|--------|----------|----------|---------|
| | Result | Qualifier | | | | | | |
| DCB Decachlorobiphenyl (Surrogate) | 49 | | 49 | 10 - 110 | | | | |
| Tetrachloro-m-xylene | 45 | | 45 | 10 - 110 | | | | |

Method: WI-DRO - Wisconsin - Diesel Range Organics (GC)

Lab Sample ID: MB 310-127730/1-A

Matrix: Solid

Analysis Batch: 127812

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127730

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | %Rec | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|--------|-----------|------|------|-------|---|----------------|----------------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | | | | |
| Diesel Range Organics (DRO) | <6.81 | | 6.81 | | 6.81 | 6.81 | mg/Kg | | 05/16/16 14:00 | 05/17/16 11:42 | | | 1 |

Lab Sample ID: LCS 310-127730/2-A

Matrix: Solid

Analysis Batch: 127812

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127730

| Analyte | MB | MB | Spike Added | Result | LCS Qualifier | Unit | D | %Rec | Limits | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-------------|--------|---------------|-------|---|------|----------|----------|----------|---------|
| | Result | Qualifier | | | | | | | | | | |
| Diesel Range Organics (DRO) | | | 96.9 | 93.00 | | mg/Kg | | 96 | 70 - 120 | | | |

Lab Sample ID: LCSD 310-127730/3-A

Matrix: Solid

Analysis Batch: 127812

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 127730

| Analyte | MB | MB | Spike Added | Result | LCSD Qualifier | Unit | D | %Rec | Limits | Prepared | Analyzed | RPD |
|-----------------------------|--------|-----------|-------------|--------|----------------|-------|---|------|----------|----------|----------|-----|
| | Result | Qualifier | | | | | | | | | | |
| Diesel Range Organics (DRO) | | | 97.6 | 57.95 | * | mg/Kg | | 59 | 70 - 120 | | | 46 |

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 310-127725/1-A

Matrix: Solid

Analysis Batch: 127945

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127725

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|--------|-----------|-------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Barium | <0.461 | | 0.461 | | mg/Kg | | 05/17/16 10:00 | 05/17/16 18:28 | 1 |
| Cadmium | <0.922 | | 0.922 | | mg/Kg | | 05/17/16 10:00 | 05/17/16 18:28 | 1 |
| Chromium | <0.922 | | 0.922 | | mg/Kg | | 05/17/16 10:00 | 05/17/16 18:28 | 1 |
| Lead | <4.61 | | 4.61 | | mg/Kg | | 05/17/16 10:00 | 05/17/16 18:28 | 1 |
| Silver | <0.922 | | 0.922 | | mg/Kg | | 05/17/16 10:00 | 05/17/16 18:28 | 1 |

Lab Sample ID: LCS 310-127725/2-A

Matrix: Solid

Analysis Batch: 127945

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127725

| Analyte | Spike Added | LC S | LC S | Unit | D | %Rec | Limits | RPD |
|----------|-------------|--------|-----------|-------|---|------|----------|-----|
| | | Result | Qualifier | | | | | |
| Barium | 90.5 | 84.77 | | mg/Kg | | 94 | 80 - 120 | |
| Cadmium | 90.5 | 85.74 | | mg/Kg | | 95 | 80 - 120 | |
| Chromium | 90.5 | 85.56 | | mg/Kg | | 95 | 80 - 120 | |
| Lead | 181 | 171.1 | | mg/Kg | | 95 | 80 - 120 | |
| Silver | 90.5 | 89.14 | | mg/Kg | | 99 | 80 - 120 | |

Lab Sample ID: 310-80618-4 DU

Matrix: Solid

Analysis Batch: 127945

Client Sample ID: SB-1 (0-1.5)

Prep Type: Total/NA

Prep Batch: 127725

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|-------|----|-----|-------|
| | Result | Qualifier | Result | Qualifier | Unit | D | | |
| Barium | 36.7 | | 37.94 | | mg/Kg | 33 | 3 | 20 |
| Cadmium | <0.992 | | <0.990 | | mg/Kg | 30 | NC | 20 |
| Chromium | 16.2 | | 16.33 | | mg/Kg | 30 | 1 | 20 |
| Lead | <4.96 | | 5.490 | | mg/Kg | 30 | NC | 20 |
| Silver | <0.992 | | <0.990 | | mg/Kg | 30 | NC | 20 |

Method: 7010 - Metals (GFAA)

Lab Sample ID: MB 310-127726/1-A

Matrix: Solid

Analysis Batch: 127880

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127726

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|----------|-----------|--------------|-------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | RL | | | | | | |
| Selenium | <0.233 | | 0.233 | | mg/Kg | | 05/17/16 10:00 | 05/17/16 11:33 | 1 |

Lab Sample ID: MB 310-127726/1-A

Matrix: Solid

Analysis Batch: 128080

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127726

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|-----|-------|---|----------------|----------------|---------|
| | Result | Qualifier | RL | | | | | | |
| Arsenic | <0.0465 | | 0.0465 | | mg/Kg | | 05/17/16 10:00 | 05/18/16 13:16 | 1 |

TestAmerica Cedar Falls

QC Sample Results

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Method: 7010 - Metals (GFAA) (Continued)

Lab Sample ID: LCS 310-127726/2-A ^2

Matrix: Solid

Analysis Batch: 127880

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127726

%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|----------|-------------|------------|---------------|-------|----|----------|--------|
| Selenium | 3.75 | 3.486 | | mg/Kg | 93 | 80 - 120 | |

Lab Sample ID: LCS 310-127726/2-A ^2

Matrix: Solid

Analysis Batch: 128080

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127726

%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|---------|-------------|------------|---------------|-------|-----|----------|--------|
| Arsenic | 1.87 | 2.098 | | mg/Kg | 112 | 80 - 120 | |

Lab Sample ID: 310-80618-5 DU

Matrix: Solid

Analysis Batch: 127880

Client Sample ID: SB-2 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127726

RPD

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|----------|---------------|------------------|-----------|--------------|-------|----|-----|-------|
| Selenium | <1.04 | | <0.980 | | mg/Kg | NC | 20 | |

Lab Sample ID: 310-80618-5 DU

Matrix: Solid

Analysis Batch: 128080

Client Sample ID: SB-2 (2-3.5)

Prep Type: Total/NA

Prep Batch: 127726

RPD

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|---------|---------------|------------------|-----------|--------------|-------|----|-----|-------|
| Arsenic | 2.56 | | 2.670 | | mg/Kg | PP | 4 | 20 |

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 310-127737/1-A

Matrix: Solid

Analysis Batch: 127878

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127737

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------|-----------|--------------|--------|-----|-------|----------------|----------------|----------|---------|
| Mercury | <0.0198 | | 0.0198 | | mg/Kg | 05/16/16 14:10 | 05/17/16 12:27 | | 1 |

Lab Sample ID: LCS 310-127737/2-A

Matrix: Solid

Analysis Batch: 127878

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127737

%Rec.

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec. | Limits |
|---------|-------------|------------|---------------|-------|----|----------|--------|
| Mercury | 0.158 | 0.1357 | | mg/Kg | 86 | 80 - 120 | |

Method: Moisture - Percent Moisture

Lab Sample ID: 310-80618-1 DU

Matrix: Solid

Analysis Batch: 127696

Client Sample ID: SB-5 (2-3.5)

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | DU Result | DU Qualifier | Unit | D | RPD | Limit |
|------------------|---------------|------------------|-----------|--------------|------|---|-----|-------|
| Percent Moisture | 13.2 | | 12.8 | | % | | 3 | 20 |
| Percent Solids | 86.8 | | 87.2 | | % | | 0.5 | 20 |

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

GC/MS VOA

Prep Batch: 127938

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-2 MS | SB-6 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-2 MSD | SB-6 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 5035 | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 5035 | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 5035 | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 5035 | |
| 310-80618-9 | MeOH Trip Blank | Total/NA | Solid | 5035 | |
| LCS 310-127938/2-A | Lab Control Sample | Total/NA | Solid | 5035 | |
| MB 310-127938/1-A | Method Blank | Total/NA | Solid | 5035 | |

Analysis Batch: 127941

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-2 MS | SB-6 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-2 MSD | SB-6 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 8260B | 127938 |
| 310-80618-9 | MeOH Trip Blank | Total/NA | Solid | 8260B | 127938 |
| LCS 310-127938/2-A | Lab Control Sample | Total/NA | Solid | 8260B | 127938 |
| MB 310-127938/1-A | Method Blank | Total/NA | Solid | 8260B | 127938 |

GC/MS Semi VOA

Prep Batch: 127606

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 3546 | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 3546 | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 3546 | |
| LCS 310-127606/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 310-127606/1-A | Method Blank | Total/NA | Solid | 3546 | |

Analysis Batch: 127803

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 8270D SIM | 127606 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 8270D SIM | 127606 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 8270D SIM | 127606 |

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

GC/MS Semi VOA (Continued)

Analysis Batch: 127803 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|-----------|------------|
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 8270D SIM | 127606 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 8270D SIM | 127606 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 8270D SIM | 127606 |
| LCS 310-127606/2-A | Lab Control Sample | Total/NA | Solid | 8270D SIM | 127606 |
| MB 310-127606/1-A | Method Blank | Total/NA | Solid | 8270D SIM | 127606 |

Analysis Batch: 127958

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|-----------|------------|
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 8270D SIM | 127606 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 8270D SIM | 127606 |

GC Semi VOA

Prep Batch: 127604

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 3546 | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 3546 | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 3546 | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 3546 | |
| LCS 310-127604/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 310-127604/1-A | Method Blank | Total/NA | Solid | 3546 | |

Prep Batch: 127730

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 3550B | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 3550B | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 3550B | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 3550B | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 3550B | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 3550B | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 3550B | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 3550B | |
| LCS 310-127730/2-A | Lab Control Sample | Total/NA | Solid | 3550B | |
| LCSD 310-127730/3-A | Lab Control Sample Dup | Total/NA | Solid | 3550B | |
| MB 310-127730/1-A | Method Blank | Total/NA | Solid | 3550B | |

Analysis Batch: 127812

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | WI-DRO | 127730 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | WI-DRO | 127730 |
| LCS 310-127730/2-A | Lab Control Sample | Total/NA | Solid | WI-DRO | 127730 |

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

GC Semi VOA (Continued)

Analysis Batch: 127812 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| LCSD 310-127730/3-A | Lab Control Sample Dup | Total/NA | Solid | WI-DRO | 127730 |
| MB 310-127730/1-A | Method Blank | Total/NA | Solid | WI-DRO | 127730 |

Analysis Batch: 127842

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 8082A | 127604 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 8082A | 127604 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 8082A | 127604 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 8082A | 127604 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 8082A | 127604 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 8082A | 127604 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 8082A | 127604 |
| LCS 310-127604/2-A | Lab Control Sample | Total/NA | Solid | 8082A | 127604 |
| MB 310-127604/1-A | Method Blank | Total/NA | Solid | 8082A | 127604 |

Prep Batch: 128653

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 3546 | |
| LCS 310-128653/2-A | Lab Control Sample | Total/NA | Solid | 3546 | |
| MB 310-128653/1-A | Method Blank | Total/NA | Solid | 3546 | |

Analysis Batch: 128658

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 8082A | 128653 |
| LCS 310-128653/2-A | Lab Control Sample | Total/NA | Solid | 8082A | 128653 |
| MB 310-128653/1-A | Method Blank | Total/NA | Solid | 8082A | 128653 |

Metals

Prep Batch: 127725

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 3050B | |
| 310-80618-4 DU | SB-1 (0-1.5) | Total/NA | Solid | 3050B | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 3050B | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 3050B | |
| LCS 310-127725/2-A | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 310-127725/1-A | Method Blank | Total/NA | Solid | 3050B | |

Prep Batch: 127726

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 3050B | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 3050B | |

QC Association Summary

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Metals (Continued)

Prep Batch: 127726 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-5 DU | SB-2 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 3050B | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 3050B | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 3050B | |
| LCS 310-127726/2-A ^2 | Lab Control Sample | Total/NA | Solid | 3050B | |
| MB 310-127726/1-A | Method Blank | Total/NA | Solid | 3050B | |

Prep Batch: 127737

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 7471B | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 7471B | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 7471B | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 7471B | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 7471B | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 7471B | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 7471B | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 7471B | |
| LCS 310-127737/2-A | Lab Control Sample | Total/NA | Solid | 7471B | |
| MB 310-127737/1-A | Method Blank | Total/NA | Solid | 7471B | |

Analysis Batch: 127878

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 7471B | 127737 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 7471B | 127737 |
| LCS 310-127737/2-A | Lab Control Sample | Total/NA | Solid | 7471B | 127737 |
| MB 310-127737/1-A | Method Blank | Total/NA | Solid | 7471B | 127737 |

Analysis Batch: 127880

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-5 DU | SB-2 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 7010 | 127726 |
| LCS 310-127726/2-A ^2 | Lab Control Sample | Total/NA | Solid | 7010 | 127726 |
| MB 310-127726/1-A | Method Blank | Total/NA | Solid | 7010 | 127726 |

Analysis Batch: 127945

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 6010C | 127725 |

TestAmerica Cedar Falls

QC Association Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Metals (Continued)

Analysis Batch: 127945 (Continued)

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|--------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-4 DU | SB-1 (0-1.5) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 6010C | 127725 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 6010C | 127725 |
| LCS 310-127725/2-A | Lab Control Sample | Total/NA | Solid | 6010C | 127725 |
| MB 310-127725/1-A | Method Blank | Total/NA | Solid | 6010C | 127725 |

Analysis Batch: 128080

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------------|--------------------|-----------|--------|--------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-5 DU | SB-2 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | 7010 | 127726 |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | 7010 | 127726 |
| LCS 310-127726/2-A ^2 | Lab Control Sample | Total/NA | Solid | 7010 | 127726 |
| MB 310-127726/1-A | Method Blank | Total/NA | Solid | 7010 | 127726 |

General Chemistry

Analysis Batch: 127696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|----------------|------------------|-----------|--------|----------|------------|
| 310-80618-1 | SB-5 (2-3.5) | Total/NA | Solid | Moisture | |
| 310-80618-1 DU | SB-5 (2-3.5) | Total/NA | Solid | Moisture | |
| 310-80618-2 | SB-6 (2-3.5) | Total/NA | Solid | Moisture | |
| 310-80618-3 | SB-7 (2-3.5) | Total/NA | Solid | Moisture | |
| 310-80618-4 | SB-1 (0-1.5) | Total/NA | Solid | Moisture | |
| 310-80618-5 | SB-2 (2-3.5) | Total/NA | Solid | Moisture | |
| 310-80618-6 | SB-3 (4.5-6) | Total/NA | Solid | Moisture | |
| 310-80618-7 | SB-4 (2-3.5) | Total/NA | Solid | Moisture | |
| 310-80618-8 | SB-8 (4.5-6) | Total/NA | Solid | Moisture | |

Lab Chronicle

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-5 (2-3.5)

Date Collected: 05/12/16 10:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-1

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/18/16 23:07 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127803 | 05/17/16 19:05 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 128653 | 05/24/16 10:09 | DEM2 | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 128658 | 05/24/16 18:41 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 19:39 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 1 | 127945 | 05/17/16 19:00 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:15 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:07 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 12:53 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

Client Sample ID: SB-6 (2-3.5)

Date Collected: 05/12/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-2

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/18/16 23:32 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127803 | 05/17/16 19:27 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 17:57 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 20:15 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 1 | 127945 | 05/17/16 19:02 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:18 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:18 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 12:54 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

Lab Chronicle

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-7 (2-3.5)

Date Collected: 05/12/16 12:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-3

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/18/16 23:56 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127803 | 05/17/16 19:50 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 18:08 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 20:52 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 2 | 127945 | 05/17/16 21:03 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:22 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:22 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 12:56 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

Client Sample ID: SB-1 (0-1.5)

Date Collected: 05/12/16 14:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-4

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/19/16 00:20 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127803 | 05/17/16 20:12 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 18:18 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 21:28 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 1 | 127945 | 05/17/16 19:06 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:25 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:26 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 12:58 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-2 (2-3.5)

Date Collected: 05/12/16 15:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-5

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/19/16 00:44 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127803 | 05/17/16 20:34 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 18:29 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 22:04 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 2 | 127945 | 05/17/16 21:06 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:35 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:30 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 13:02 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

Client Sample ID: SB-3 (4.5-6)

Date Collected: 05/13/16 09:30

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-6

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/19/16 01:08 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127803 | 05/17/16 20:57 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 18:39 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 22:40 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 2 | 127945 | 05/17/16 21:08 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:41 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:38 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 13:04 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
 Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
 SDG: 3035-0005

Client Sample ID: SB-4 (2-3.5)

Date Collected: 05/13/16 11:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-7

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/19/16 01:32 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127958 | 05/18/16 15:37 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 18:50 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 23:16 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 1 | 127945 | 05/17/16 19:14 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:44 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:41 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 13:05 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

Client Sample ID: SB-8 (4.5-6)

Date Collected: 05/13/16 15:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-8

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/19/16 01:56 | TCH | TAL CF |
| Total/NA | Prep | 3546 | | | 127606 | 05/16/16 13:52 | AJM | TAL CF |
| Total/NA | Analysis | 8270D SIM | | 10 | 127958 | 05/18/16 16:00 | DMD | TAL CF |
| Total/NA | Prep | 3546 | | | 127604 | 05/16/16 13:54 | AJM | TAL CF |
| Total/NA | Analysis | 8082A | | 1 | 127842 | 05/17/16 19:00 | BKT | TAL CF |
| Total/NA | Prep | 3550B | | | 127730 | 05/16/16 14:00 | AJM | TAL CF |
| Total/NA | Analysis | WI-DRO | | 1 | 127812 | 05/17/16 23:52 | LLS | TAL CF |
| Total/NA | Prep | 3050B | | | 127725 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 6010C | | 2 | 127945 | 05/17/16 21:10 | OAD | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 4 | 127880 | 05/17/16 12:48 | CJT | TAL CF |
| Total/NA | Prep | 3050B | | | 127726 | 05/17/16 10:00 | JNR | TAL CF |
| Total/NA | Analysis | 7010 | | 12 | 128080 | 05/18/16 14:45 | AJG | TAL CF |
| Total/NA | Prep | 7471B | | | 127737 | 05/16/16 14:10 | JNR | TAL CF |
| Total/NA | Analysis | 7471B | | 1 | 127878 | 05/17/16 13:07 | SAD | TAL CF |
| Total/NA | Analysis | Moisture | | 1 | 127696 | 05/16/16 09:56 | SAS | TAL CF |

TestAmerica Cedar Falls

Lab Chronicle

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Client Sample ID: MeOH Trip Blank

Date Collected: 05/13/16 00:00

Date Received: 05/14/16 09:15

Lab Sample ID: 310-80618-9

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|--------|
| Total/NA | Prep | 5035 | | | 127938 | 05/18/16 07:38 | TCH | TAL CF |
| Total/NA | Analysis | 8260B | | 1 | 127941 | 05/19/16 02:21 | TCH | TAL CF |

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401

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Certification Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

Laboratory: TestAmerica Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-----------|---------|------------|------------------|-----------------|
| Minnesota | NELAP | 5 | 019-999-319 | 12-31-16 |

The following analytes are included in this report, but certification is not offered by the governing authority:

| Analysis Method | Prep Method | Matrix | Analyte |
|-----------------|-------------|--------|-----------------------|
| 8082A | 3546 | Solid | PCB-1268 |
| 8260B | 5035 | Solid | Dichlorofluoromethane |
| Moisture | | Solid | Percent Moisture |
| Moisture | | Solid | Percent Solids |

Method Summary

Client: Wenck Associates, Inc
Project/Site: SHADY OAK - MINNETONKA

TestAmerica Job ID: 310-80618-1
SDG: 3035-0005

| Method | Method Description | Protocol | Laboratory |
|-----------|--|----------|------------|
| 8260B | Volatile Organic Compounds (GC/MS) | SW846 | TAL CF |
| 8270D SIM | Semivolatile Organic Compound (GC/MS SIM LL) | SW846 | TAL CF |
| 8082A | Polychlorinated Biphenyls (PCBs) by Gas Chromatography | SW846 | TAL CF |
| WI-DRO | Wisconsin - Diesel Range Organics (GC) | WI-DRO | TAL CF |
| 6010C | Metals (ICP) | SW846 | TAL CF |
| 7010 | Metals (GFAA) | SW846 | TAL CF |
| 7471B | Mercury (CVAA) | SW846 | TAL CF |
| Moisture | Percent Moisture | EPA | TAL CF |

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

WI-DRO = "Modified DRO: Method For Determining Diesel Range Organics", Wisconsin DNR, Publ-SW-141, September, 1995.

Laboratory References:

TAL CF = TestAmerica Cedar Falls, 704 Enterprise Drive, Cedar Falls, IA 50613, TEL (319)277-2401



310-80618 Chain of Custody

Cooler/Sample Receipt and Temperature

Client Information

Client: WENCK ASSOCIATES

City/State: Maple Plain, MN

Project: SHADY OAK

Receipt Information

Date/Time Received: 5/14/16 0915

Received By: ST

Delivery Type: UPS FedEx FedEx Ground US Mail Spee-Dee
 TA Courier TA Field Services Client Drop-off Other: _____

Condition of Cooler/Containers

Sample(s) received in Cooler? Yes No If yes: Cooler ID: TA MinneapolisMultiple Coolers? Yes No If yes: Cooler # ____ of ____Cooler Custody Seals Present? Yes No If yes: Cooler custody seals intact? Yes NoSample Custody Seals Present? Yes No If yes: Sample custody seals intact? Yes NoTrip Blank Present? Yes No If yes: Which VOA samples are in cooler? ↓

METH Blank

Temperature Record

Coolant: Wet ice Blue ice Dry ice Other: _____ NONETemperature Blank? Yes No ID & Bottle Type:

NOTE: If yes, use temp blank for measurement. If no, specify sample ID(s) and bottle type used to take measurement.

Thermometer ID: H Correction Factor (°C): +0.1°C

Uncorrected Temp (°C): 1.4°C Corrected Temp (°C): 1.5°C

Exceptions Noted

- 1) If temperature exceeds criteria, was sample(s) received same day of sampling? Yes No
a) If yes: Is there evidence that the chilling process began? Yes No
- 2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised?
(e.g., bulging septa, broken/cracked bottles?) Yes No

NOTE: If yes, contact PM before proceeding. If no, proceed with login

Additional Comments

| |
|--|
| |
| |
| |

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Cedar Falls Division
704 Enterprise Drive
Cedar Falls, IA 50613

Phone 319-277-2401 or 800-750-2401
Fax 319-277-2425

Client Name: WENXU ASSOCIATES INC.

Address: 1800 FOREST GREEN CENTER

City/State/Zip Code: MAPLE PLAIN, MN 55359

Project Manager: KELLY ZOBEL

Email Address: AZOBEL@GIGAVERSE.COM

Telephone Number: (603) 479-5145

Sampler Name: (Print Name) KELLY ZAWORSKI

Sampler Signature: 

| SAMPLE ID | Standard | Rush (surcharges may apply) | Date Needed: | Fax Results: Y N | Email Results: O N | Time Sampled | Date Sampled | Time Composite | G = Grab, C = Composite | Field Filtered | HNO ₃ | HCl | NaOH | H ₂ SO ₄ | MeOH | WW - Wastewater | DW - Drinking Water | SL - Sludge | GW - Groundwater | Soil/Solid | WW - Wastewater | DW - Drinking Water | SL - Sludge | GW - Groundwater | Soil/Solid | Other (Specify) | Analyze For: | QC Deliverables | | | |
|--------------|----------|-----------------------------|--------------|------------------|--------------------|--------------|--------------|----------------|-------------------------|----------------|------------------|-----|------|--------------------------------|------|-----------------|---------------------|-------------|------------------|------------|-----------------|---------------------|-------------|------------------|------------|-----------------|--------------|-----------------|--|--|--|
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-5 (2-3.5) | 512 | 1000 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-4 (2-3.5) | 512 | 1000 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-7 (2-3.5) | 512 | 1200 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-1 (0-1.5) | 512 | 1400 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-2 (2-3.5) | 512 | 1530 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-3 (4.5-6) | 512 | 930 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-4 (2-3.5) | 512 | 1000 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SB-8 (4.5-6) | 512 | 1500 | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Special Instructions:

LABORATORY COMMENTS:

| | | | | | |
|--------------------------------------|---------------------|--------------------|---------------------------------|---------------------|--------------------|
| Reinforced by: <u>Kelly Zaworski</u> | Date: <u>5/1/13</u> | Time: <u>13:35</u> | Received By: <u>Beth Grotto</u> | Date: <u>5/1/13</u> | Time: <u>13:25</u> |
| Reinforced by: <u>Kelly Zaworski</u> | Date: <u>5/1/13</u> | Time: <u>13:30</u> | Received By: <u>Prakash</u> | Date: <u>5/1/13</u> | Time: <u>09:15</u> |
| Reinforced by: <u>Kelly Zaworski</u> | Date: <u>5/1/13</u> | Time: <u>13:30</u> | Received By: <u>Prakash</u> | Date: <u>5/1/13</u> | Time: <u>09:15</u> |

TAL-0033 (0708)

Page 1 of 1

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Login Sample Receipt Checklist

Client: Wenck Associates, Inc

Job Number: 310-80618-1

SDG Number: 3035-0005

Login Number: 80618

List Source: TestAmerica Cedar Falls

List Number: 1

Creator: Tuladhar, Sushil X

| Question | Answer | Comment |
|--|--------|---|
| Radioactivity wasn't checked or is </= background as measured by a survey meter. | N/A | |
| The cooler's custody seal, if present, is intact. | True | |
| Sample custody seals, if present, are intact. | N/A | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the containers received and the COC. | False | Received Trip Blank(s) not listed on COC. |
| Samples are received within Holding Time (excluding tests with immediate HTs) | True | |
| Sample containers have legible labels. | False | One DRO jar for SB-7 labeled as SB-12 on the container. |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified. | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4"). | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Residual Chlorine Checked. | N/A | |



Responsive partner.
Exceptional outcomes.

Toll Free: 800-472-2232

Email: wenckmp@wenck.com

Web: wenck.com

MINNESOTA

Maple Plain
763-479-4200

Golden Valley
763-252-6800
Windom
507-831-2703

New Hope
800-368-8831
Woodbury
651-294-4580

COLORADO

Denver
602-370-7420

GEORGIA

Roswell
678-987-5840

NORTH DAKOTA

Fargo
701-297-9600
Mandan
701-751-3370
Williston
800-472-2232

SOUTH DAKOTA

Pierre
605-222-1826

WYOMING

Cheyenne
307-634-7848
Sheridan
307-675-1148

Environmental Site Assessment – Supplemental Soil Investigation



Shady Oak Property

4312 Shady Oak Road and
4292 Oak Drive Lane
Minnetonka, MN 55343

Prepared for:
**City of Minnetonka and Hennepin
County**

City of Minnetonka
14600 Minnetonka Blvd.
Minnetonka, MN 55345

Hennepin County
Contaminated Lands Unit
701 4th Ave S., Suite 700
Minneapolis, MN 55415



Responsive partner.
Exceptional outcomes.

Prepared by:

WENCK Associates, Inc.
1800 Pioneer Creek Center
Maple Plain, MN 55359
Phone: 763-479-4200
Fax: 763-479-4242

5.0 Investigation Results

5.1 SOIL

5.1.1 Geology

Wenck encountered approximately four feet of fill soils consisting of mainly dark brown to black silty sand with gravel on the Subject Property with approximately 10 feet of fill in boring SB-8 on the south side of the building. In general, the fill is underlain primarily by brown silty sand with gravel in borings SB-1 through SB-4 and brown to grey sandy clays in borings SB-5 through SB-8. Lenses of organic clay ranging from one inch to two feet in thickness were noted in SB-6 through SB-8 from 9-15 feet below grade. Soil boring logs are included in **Appendix B**.

Published references describe the surficial geology at the Subject Property as outwash consisting of sand, loamy sand, and gravel (University of Minnesota, 1989). Surficial bedrock in the vicinity of the Subject Property consists of the Platteville and Glenwood Formations at a depth of approximately 100-150 feet (University of Minnesota, 1989).

5.1.2 Soil Analytical Results

Soil investigation data compared detected concentrations of RCRA metals, VOCs, PAHs and PCBs to the Minnesota Pollution Control Agency's Tier 1 Residential and Tier 2 Industrial Soil Reference Values (SRVs). Additionally, MPCA Tier 1 Soil Leaching Values (SLVs) were referenced to evaluate the potential risk to groundwater at the Subject Property from the soil-to-groundwater leaching pathway. There are no established MPCA SRVs or SLVs for DRO.

Field Screening

A vapor headspace reading was detected at 11.6 parts per million (ppm) in sample SB-7 (2-3.5') via field screening by PID. Vapor headspace readings for VOCs were not detected above background concentrations via field screening by PID in any of the other soil borings. Vapor headspace readings and field observations are included on the soil boring logs in **Appendix B**.

DRO

DRO was detected in all eight of the soil samples collected and analyzed for DRO. Detections ranged from 0.425 mg/kg in sample SB-4 (2-3.5') to 215 mg/kg in sample SB-7 (2-3.5'). DRO was detected above 100 mg/kg in samples SB-3 (4.5-6') at 108 mg/kg, SB-6 (2-3.5') at 170 mg/kg, and SB-7 (2-3.5') at 215 mg/kg. There is no established limit for DRO in the MPCA SLVs or SRVs.

RCRA Metals

Five of the eight RCRA metals were detected in the eight samples collected and analyzed for RCRA metals with at least three metals identified in each sample. However, detected concentrations of metals do not exceed the MPCA SLVs, Residential SRVs, or Industrial SRVs.

VOCs

PCE was detected at 0.245 mg/kg in sample SB-3 (4.5-6'). No other VOCs were detected above their respective laboratory method reporting limits in any of the other seven soil samples collected and analyzed for VOCs. The detection of PCE exceeds the MPCA SLV, but does not exceed the Residential SRV or Industrial SRV.

PCBs

PCBs were not detected in any of the eight soil samples collected and analyzed for PCBs.

PAHs

Various PAHs were detected above the method reporting limit in six of the eight soil samples collected and analyzed for PAHs. None of the samples were identified to exceed the MPCA Residential or Industrial SRVs or MPCA SLVs for individual PAHs.

Soil sample results are summarized in **Table 1**. Laboratory reports and supporting chain-of-custody documentation are included in **Appendix C**.

5.2 GROUNDWATER

5.2.1 Hydrogeology

Groundwater was encountered in each boring drilled on the Subject Property. Groundwater was encountered at approximately 13 feet below ground surface in SB-2 through SB-4 located at a lower elevation on the west side of the building. Groundwater was encountered at approximately 25 feet below grade in borings SB-5 through SB-8 which were drilled on the west side of the building starting at a higher elevation. Groundwater was also encountered at 25 feet below grade in SB-1 which also appears to be at slightly higher elevation.

The general direction of regional groundwater flow in the area of the Subject Property is noted in Minnesota Department of Natural Resources County Geologic Atlas to be to the west towards the Mississippi River. However, local conditions may vary due to surface water features, perched groundwater conditions or artificially created drainage systems. Depth to regional groundwater is noted to be approximately 25 feet below ground surface (MN Department of Natural Resources, 1989).

6.0 Discussion

6.1 SOIL DISCUSSION

The detection of DRO in SB-3 (4.5-6'), SB-6 (2-3.5) and SB-7 (2-3.5) over 100 mg/kg indicates that impacts are concentrated in the surficial fill soil in the northeastern and central portion of the Subject Property but low-level impacts are also present in the fill soil across the Subject Property, along with PCE and PCBs exceeding the MPCA SLV. The lack of further detections of PCBs in any of the soil borings indicates that the extent of PCB contamination appears to be limited to the vicinity of boring GP-1A (0-2'). With the soil detections of PCBs and PCE above the MPCA SLV and the multiple detections of DRO in fill over 100 mg/kg, the future redevelopment of the Subject Property and soil management should be conducted under an approved MPCA Response Action Plan.

The MPCA document "Best Management Practices for the Off-Site Reuse of Unregulated Fill," dated February 2012, defines unregulated fill as excess soil in which a release of contaminants has been identified at concentrations less than the MPCA's most conservative risk-based values. The criteria for unregulated fill are described as the following:

- ▲ Soil free from solid waste, debris, asbestos containing material, visual staining, and chemical odor;
- ▲ Organic vapors less than 10 ppm as measured by a PID;
- ▲ For petroleum impacted soil, less than 100 mg/kg DRO/GRO;
- ▲ For contaminants detected in soil, less than the MPCA's Residential SRVs and MPCA Tier 1 SLVs.

Wenck recommends removal of the former septic system components as part of the proposed redevelopment. Additional assessment of soil may be necessary at the time of the removal of the former septic system components.

7.0 Conclusions

Based on the field observations and laboratory analysis of the additional soil samples collected and analyzed from the Subject Property and the previous findings, Wenck submits the following conclusions and recommendations:

1. Enroll the Subject Property in the MPCA Voluntary Investigation and Cleanup (VIC) Program and Petroleum Brownfields (PB) Program;
2. Apply for a No Association Determination related to the elevated detection of PCBs and PCE in soil, PCE and acetone in groundwater, and PCE and TCE in soil vapor from the VIC Program. The submittal will include a proposed actions letter for the proposed use of the Subject Property.
3. When development plans are known, submit a Response Action Plan to the MPCA Voluntary Brownfield Programs (VIC and the Petroleum Brownfield Program) for review and approval.
4. Apply for a Non-tank Closure Letter from the Petroleum Brownfields Program for the low-level detections of DRO in soil and groundwater at the Subject Property.
5. Wenck recommends the City remove and dispose of the former septic system as part of future redevelopment as an environmental development response action.
6. Wenck recommends collecting bulk samples of the concrete stained with the PCB containing oil prior to demolition to determine if the concrete will require special handling.



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Geologist

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Phase I Environmental Site Assessment



Shady Oak Properties
4312 Shady Oak Road
and 4292 Oak Drive Lane
Minnetonka, Minnesota

Prepared for:
City of Minnetonka
&
Hennepin County Environmental

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Responsive partner.
Exceptional outcomes.

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1.0 Summary

Wenck Associates, Inc. (Wenck) was authorized by Hennepin County Environmental (Hennepin County) to conduct this Phase I Environmental Site Assessment (ESA) of the Shady Oak Properties located at 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Hennepin County, Minnesota (the Subject Property). The Subject Property consists of 2.28 acres occupied by an approximately 25,680-square foot commercial building and one single family residence. Access to the Subject Property is from Shady Oak Road and Oak Drive Lane. The Subject Property location is depicted in **Figure 1**. A Site Detail Map of the Subject Property is included as **Figure 2**.

This was conducted in accordance with the American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessment Process, Designation E-1527-13 (ASTM Phase I Standard) and satisfies standards and practices set forth in 40 CFR Part 312 – Standards for Conducting All Appropriate Inquiry (AAI Rule) for the purposes of meeting the all appropriate inquiries provisions necessary to qualify for certain landowner liability protections under the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. § 9601(35)(B).

Wenck understands that the City of Minnetonka is considering redeveloping the Subject Property for redevelopment. The conclusions contained in this report have been made to assist the City of Minnetonka in evaluating environmental conditions at the present time at the Subject Property.

This Phase I ESA has identified no recognized environmental conditions (RECs) relative to the Subject Property except for the following:

- ▲ The presence of historical machine shop and drycleaner tenants at the Subject Property that handled various oils and solvents and operated at the same time as the former septic and cesspool system is considered an REC.
- ▲ A Phase II Subsurface Investigation completed at the Subject Property identified DRO, VOCs and PCBs above MPCA and MDH established risk criteria in the soil, groundwater, concrete and soil vapor at the Subject Property. The identified release to multiple materials at the Subject Property is considered a REC.

This Phase I ESA has not identified any controlled recognized environmental conditions (CRECs) or historical recognized environmental conditions (HRECs) relative to the Subject Property.

Although not considered RECs, CRECs, or HRECs; this ESA has revealed the following items that constitute business environmental risks:

- ▲ There is a domestic well located at the Subject Property that is currently not in use on the 4292 Parcel and two wells not in use on the 4312 parcel. According to the Minnesota Department of Health, a well must be in use, be under a maintenance permit, or be sealed by a licensed contractor.
- ▲ A former septic system may still be present on the Subject Property at the 4312 Parcel on the west of the building. Septic systems no longer in use should be abandoned/decommissioned in accordance with local regulations. A septic system



8.0 Evaluation

8.1 DATA GAPS

Historical information was reviewed back to 1875. Data gaps greater than five years exist from prior to 1875, from 1875 to 1900, from 1900 to 1925 and from 1925 to 1940.

The interviews, historical maps, city directories, fire insurance maps, aerial photographs, and previous environmental reports provide generally good corroborating information that allows an understanding of historical Subject Property use. A research summary is included as **Appendix I**.

Wenck considers the evaluation of the presence of recognized environmental conditions, controlled recognized environmental conditions, and historical recognized environmental conditions to be complete, based on the lack of identified changes in land use during the periods affected by any data gaps of more than five years. Therefore, we do not recommend additional investigation relative to the resolution of those data gaps, as we do not believe it would materially affect our conclusion.

8.2 IDENTIFIED FINDINGS

Wenck was authorized by the City of Minnetonka to conduct this Phase I ESA of the Shady Oak Road property located at 4312 Shady Oak Road and 4292 Oak Drive Lane, Minnetonka, Hennepin County, Minnesota (the Subject Property). The Subject Property consists of 2.28-acres occupied by an approximately 25,680-square foot commercial/retail building and a single family residence. Access to the Subject Property is from Shady Oak Road and Oak Drive Lane.

The Subject Property has one commercial/retail building with multiple tenant spaces, a single-family residence, a paved parking area on the west side of the commercial building, and greenspace. Both structures were originally built in 1951. Two additions were completed on the commercial structure by 1964.

The building on the 4312 Parcel is two levels and the upper level tenant spaces are accessed from the east side of the building off Shady Oak Road and the lower level tenant spaces are accessed by a walkout basement level on the west side of the building. The current tenants on the upper level consist of Ammo Craft (4314), Chalet Pizza (4316) and Sewing and Alterations (4318); the remaining spaces on the upper level are vacant. The lower level tenant spaces are occupied by Mid-Tool (4316B), Electric City (4330B and 4332B), and Practical Systems – HVAC (4340B and 4342B).

Wenck reviewed building permits and records for the Subject Property at the City of Minnetonka. Dahl's Cleaners and Laundry were noted in the City file as a drycleaner tenant at the Subject Property at the 4312 Parcel building and the file notes a drycleaning machine was installed in 1962.

Wenck also obtained hazardous waste files from Hennepin County Environmental. The records did not reveal any evidence of a release of hazardous materials at the Property or



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any major handling violations. Wenck reviewed records for Knight Machining, Inc., Mid-Tool, Liberty Tool, Practical Systems, Clean Flo Labs, and Shady Oak Veterinary Clinic.

Chemicals formerly used by Knight Machine included relatively small quantities of Stoddard Solvent, used oil, and metal working fluid. Waste generated by the Shady Oak Veterinary included Used X-Ray film, x-ray fixer, and bio-waste. Clean Flo labs reported to generate approximately 5-gallons per year of mixed lab chemicals. A letter for Mid-Tool from the MPCA noted that Mid-Tool does not generate any waste, but uses cutting oil and Stoddard Solvent in their operations. The chemicals are reportedly consumed in the process or recycled back to the machines.

City files show that the commercial structure on the 4312 Parcel was originally constructed with a septic system consisting of a 10' wide x 40' long x 8' in height septic tank and four 675-gallon concrete cesspools.

Wenck observed a vent pipe on the west side of the building on the 4312 parcel. This pipe may be associated with a former fuel tank or the former septic system.

The Subject Property was identified on the following reviewed regulatory databases in the GeoSearch™ Radius Report: Resource Conservation & Recovery Act – Generator Facilities (RCRAGR05) and Federal Facility Registry System (FRSMN) and Hazardous Waste Generator Sites (HWGS) databases due to a hazardous waste generator licenses. Other nearby sites were noted in the Geosearch report for various databases.

Wenck observed two wells on the 4312 parcel. One well is located under a stairwell in the Practical Systems space and the other well is located outside off the sidewalk north of the Ammo Craft tenant space. Wenck also observed a well in the basement of the residence at the 4292 parcel.

8.3 OPINIONS

We have reviewed the above findings and have come to the following opinions:

- ▲ Mapped sites of regulatory interest revealed within the GeoSearch Radius Report are not considered RECs, HRECs, or CRECs. Based on the review of the revealed sites of regulatory interest, including unmapped site listings revealed within search radii defined by the Practice, we identified no material threat of release to the Subject Property from adjacent or upgradient properties.
- ▲ City records show a former septic system with four concrete cesspool tanks located on the west side of the building on the 4312 Parcel. The septic system and cesspools were in use until approximately 1977. City records show that a dry-cleaner tenant formerly operated at the Site in the 1960s. Dry-cleaners are known to use hazardous materials including chlorinated solvents. In addition, the various machine shops at the Subject Property historically used small quantities of various oils and solvents. The former septic system and cesspools at the Subject Property represent pathways for potential releases of hazardous materials to the subsurface. The use of the Subject Property as a drycleaner and machine shops with the septic and cesspool system is considered an REC.
- ▲ A Phase II Subsurface Investigation completed at the Subject Property identified DRO, VOCs and PCBs above MPCA and MDH established risk criteria in the soil, groundwater, concrete and soil vapor at the Subject Property. The identified release to multiple materials at the Subject Property is considered a REC.



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- ▲ The vent pipe observed at the Subject Property is likely associated with the former septic system since there is no record of underground storage tanks at the Subject Property, and is not considered an REC.
- ▲ Wells at the Subject Property are considered an business environmental risk that may require future sealing.
- ▲ The potential presence of septic systems no longer in use at the Subject Property are considered an business environmental risk, that may require future removal or abandonment.

8.4 CONCLUSIONS

Wenck performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of the ASTM Phase I Standards and in accordance with the All Appropriate Inquiry Rule (40 CFR Part 312) of the property and improvements of 4313 Shady Oak Drive and 4292 Oak Drive Lane in Minnetonka, Hennepin County, Minnesota. Any exceptions to, or deletions from, the ASTM Phase I Standards are described in Section 2.3 and Section 2.4 of this report.

This Phase I ESA has revealed no RECs relative to the Subject Property except for the following:

- ▲ The presence of historical machine shop and drycleaner tenants at the Subject Property that handled various oils and solvents and operated at the same time as the former septic and cesspool system is considered an REC.
- ▲ A Phase II Subsurface Investigation completed at the Subject Property identified DRO, VOCs and PCBs above MPCA and MDH established risk criteria in the soil, groundwater, concrete and soil vapor at the Subject Property. The identified release to multiple materials at the Subject Property is considered a REC.

This Phase I ESA has revealed no CRECs or HRECs relative to the Subject Property.

Although not considered RECs, CRECs, or HRECs; this ESA has revealed the following items that constitute business environmental risks:

- ▲ There is a domestic well located at the Subject Property that is currently not in use on the 4292 Parcel and two wells not in use on the 4312 parcel. According to the Minnesota Department of Health, a well must be in use, be under a maintenance permit, or be sealed by a licensed contractor.
- ▲ A former septic system may still be present on the Subject Property at the 4312 Parcel on the west of the building. Septic systems no longer in use should be abandoned/decommissioned in accordance with local regulations. A septic system was not observed on the 4292 Parcel; however, a septic system may also be present on the 4292 Parcel, based on the similar time of construction.

9.0 Non-Scope Considerations

Assessments of potential environmental issues or conditions at the Subject Property that may relate to commercial real estate activities, but were not part of this scope of work include the following:

- ▲ Asbestos Survey
- ▲ Radon Gas Survey
- ▲ Lead-Based Paint Assessment
- ▲ Lead in Drinking Water Evaluation
- ▲ Wetland Delineation
- ▲ Regulatory Compliance Audit
- ▲ Cultural and Historic Resources Review
- ▲ Industrial Hygiene Review
- ▲ Health and Safety Assessment
- ▲ Ecological Resources Evaluation
- ▲ Endangered Species Survey
- ▲ Indoor Air Quality Evaluation
- ▲ Mold Investigation
- ▲ High Voltage Power Lines Assessment

This list is not intended to be all-inclusive and is not intended to imply significance of further investigation into these non-scope items.

November 13, 2014



Phase II Environmental Site Assessment



Shady Oak Property
4312 Shady Oak Road and 4292 Oak Drive Lane
Minnetonka, Minnesota

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5.0 Investigation Results

5.1 SOIL

5.1.1 Geology

Wenck encountered up to 15 feet of fill soils consisting of mainly dark brown to black silty sand with gravel in the west parking lot near the former septic system in GP-2. Fill was encountered to depths of approximately 2 to 5 feet bg in the other borings. In general, the fill is underlain primarily by brown silty sand with gravel. Organic clay was noted in GP-5 from 5-11 feet below grade. Soil boring logs are included in **Appendix A**.

Published references describe the surficial geology at the Subject Property as outwash consisting of sand, loamy sand, and gravel (University of Minnesota, 1989). Surficial bedrock in the vicinity of the Subject Property consists of the Platteville and Glenwood Formations at a depth of approximately 100-150 feet (University of Minnesota, 1989).

5.1.2 Soil Analytical Results

Soil investigation data compared detected concentrations of RCRA metals, VOCs, PAHs and PCBs to the Minnesota Pollution Control Agency's Tier 1 Residential and Tier 2 Industrial Soil Reference Values (SRVs). Additionally, MPCA Tier 1 Soil Leaching Values (SLVs) were referenced to evaluate the potential risk to groundwater at the Subject Property from the soil-to-groundwater leaching pathway. There are no established MPCA SRVs or SLVs for DRO and GRO.

Field Screening

Vapor headspace readings for VOCs were not detected above background concentrations via field screening by PID in soil borings GP-1, GP-2, GP-3, GP-4, or GP-5. A headspace reading was detected at 16.7 parts per million (ppm) in sample GP-1A (0-2'). GP-1A was terminated at two feet due to obstruction. The obstruction was determined to likely be concrete associated with the former septic system based on the location of the boring. Vapor headspace readings and field observations are included on the soil boring logs in **Appendix A**.

DRO

DRO was detected in three of the six soil samples collected and analyzed for DRO. DRO was detected at 494 mg/kg in sample GP-1A (0-2'), 39.7 mg/kg in sample GP-3 (0-2'), and 9.99 mg/kg in sample GP-5 (3-5').

RCRA Metals

Various RCRA metals were detected in all of the samples collected and analyzed for RCRA metals. However, detected concentrations of metals do not exceed the MPCA SLVs, Residential SRVs, or Industrial SRVs.

7.0 Conclusions

Based on the field observations and laboratory analysis of PCB wipe samples, soil, soil vapor, and groundwater samples collected and analyzed from the Subject Property, Wenck submits the following conclusions:

1. Enroll the Subject Property in the MPCA Voluntary Investigation and Cleanup (VIC) Program and Petroleum Brownfields (PB) Program;
2. Apply for a No Association Determination related to the elevated detection of PCBs in soil, PCE and acetone in groundwater, and PCE and TCE in soil vapor from the VIC Program. The submittal will include a proposed actions letter for the proposed use of the Subject Property.
3. Apply for a Non-tank Closure Letter from the Petroleum Brownfields Program for the low-level detections of DRO in soil and groundwater at the Subject Property.
4. When development plans are known, submit a Response Action Plan to the MPCA Voluntary Brownfield Programs (VIC and the Petroleum Brownfield Program) for review and approval.
5. Wenck recommends the City remove and dispose of the former septic system as part of future redevelopment as an environmental development response action.
6. Wenck recommends cleaning the concrete contaminated with PCB containing oil using approved methods and either fixing the leak in the compressor or replacing the compressor as long as current leases and business operations continue at the Subject Property.
7. Wenck recommends collecting bulk samples of the concrete stained with the PCB containing oil prior to demolition to determine if the concrete will require special handling.



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