Phase 2.5 Investigation

Multiple Sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin

WisDOT Project ID #1310-10-00

October 2017
Revised January 2019

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Commonly Used Abbreviations and Acronyms

AST	aboveground storage tank
bgs	below ground surface
BRRTS	Bureau for Remediation and Redevelopment Tracking System
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CTH	County Trunk Highway
CY	cubic yards
DATCP	Department of Agriculture, Trade and Consumer Protection
DRO	diesel range organics
FDM	Facilities Development Manual
EMP	Excavation Management Plan
ES	Enforcement Standards
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Identification Initiative Program Summary Report
GIS Registry	WDNR Geographic Information System (GIS) Registry of Closed Remediation Sites
GRO	gasoline range organics
HAZWOPER	Code of Federal Registry Chapter 29 (29 CFR) Part 1910.120 Hazardous Waste Operations and Emergency Response
HMA	Hazardous Materials Assessment
IH	Interstate Highway
LQG	large quantity generator
LUST	leaking underground storage tank
NPL	National Priorities List
NR ###	Wisconsin Administrative Code (WAC) Natural Resources (NR) Chapter ###
PAHs	polynuclear aromatic hydrocarbons
PAL	Preventive Action Limits
PCBs	polychlorinated biphenyls
PCE	perchloroethylene/tetrachloroethylene
PID	photoionization detector
PVOCs	petroleum volatile organic compounds
RCLs	Residual Contaminant Levels in NR 720
RCRA	Resource Conservation and Recovery Act
RCRIS	Resource Conservation and Recovery Information System
R/W or ROW	right-of-way
sf	square feet
STH	State Trunk Highway
TCE	trichloroethylene
TRIS	Toxic Chemical Release Inventory System
USGS	United States Geological Survey
USH	United States Highway
UST	underground storage tank
VOCs	volatile organic compounds
WDNR	Wisconsin Department of Natural Resources
WisDOT	Wisconsin Department of Transportation
WGNHS	Wisconsin Geological and Natural History Survey
WI ERP	Wisconsin Environmental Repair Program database

Executive Summary

The WisDOT is planning to reconstruct STH 50 (75th St.) from I94 to 43rd Ave., in the City of Kenosha, Kenosha County (WisDOT ID 1310-10-00). Improvements will include new sidewalk, street lighting, landscaping, signal replacement, signage, pavement marking, and storm sewer improvement. The Advanceable Plans, Specifications, and Estimates (PS&E) date for the project is May 2019.

In March 2014, HNTB Corporation (HNTB) completed a Phase I Hazardous Materials Assessment for the project. The Phase I recommended a subsurface investigation at 13 sites along this project corridor. Based on the Phase 1 results, the WisDOT requested a Phase 2.5 Investigation to determine if contaminated soil would be encountered during reconstruction.

A total of 70 soil borings (GP-01 through GP-70) were advanced near the various sites.

The results of the Phase 2.5 Investigation indicated the following:

- Soil contaminated with petroleum and metals is present at several locations along the project corridor. Soil excavated from those locations by the project will require landfill disposal.

Special Provisions should be included in the construction documents advising the contractor of these findings, and the requirements to manage contaminated soil removed by the project.

An excavation management plan should be prepared and submitted to the WDNR for their review and concurrence. The WisDOT's environmental consultant will be present during excavations in the areas of known contamination to field-screen and document the excavation activities.

To assist the WisDOT in determining environmental and financial liabilities associated with possible acquisition of the site, TRC prepared an Environmental Liability Financial Analysis. The information provided in the Environmental Liability Financial Analysis should be shared with the WisDOT real estate department. The Environmental Liability Financial Analysis for the site is provided in Appendix G.

Section 1
Background

The WisDOT is planning to reconstruct STH 50 (75th St.) from I94 to 43rd Ave., in the City of Kenosha, Kenosha County (WisDOT ID 1310-10-00). Improvements will include new sidewalk, street lighting, landscaping, signal replacement, signage, pavement marking, and storm sewer improvement. The Advanceable Plans, Specifications, and Estimates (PS&E) date for the project is May 2019.

In March 2014, HNTB Corporation (HNTB) completed a Phase I Hazardous Materials Assessment for the project. The Phase I recommended a subsurface investigation at 13 sites along this project corridor. The 13 sites are summarized below:

- **Phase 1 Site 29, Old Highway Dept. Garage, 7304 75th St., WDNR BRRTS No. 03-30-096282 and 03-30-004846, Closed LUST Site.** The site was formerly used as a garage for the Highway Department of Pleasant Prairie. The site is currently used by Mobil Gas Station. The site had USTs that contained waste oil, leaded gasoline and unleaded gasoline. Two LUST cases were closed at this site in 1996.
- **Phase 1 Site 34, Truesdell Mini Mart, 8531 75th St., WDNR BRRTS No. 03-30-004372, Closed LUST Site.** The site is currently used by Truesdell Mini Mart, a gasoline service station. The site had USTs that contained fuel oil, leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 1996.
- **Phase 1 Site 34, Private Residence, 8500 75th St., Closed UST Site.** This property currently and historically is associated with a private residence. The site had a UST that contained fuel oil for agricultural purposes. The UST case was removed from this site in 1993.
- **Phase 1 Site 35, KJS Amoco (a.k.a. K& D Realty, LLC), 6500 75th St., UST Site.** The site is currently a gasoline service station. The site has three active 10,000 gallon USTs that contain unleaded gasoline. The WisDOT plans to acquire the entirety of this property. As a result, soil borings outside the current right-of-way were be completed.
- **Phase 1 Site 36, PDQ Food Store, 8800 75th St., Closed UST Site.** The site is currently used by PDQ Food Store, a gasoline service station. The site had/has USTs that contained fuel oil, leaded gasoline and unleaded gasoline. The fuel oil UST was removed from the site in 1997.
- **Phase 1 Site 39, East and West Medians at WIS 50 and 88th St., WDNR BRRTS No. 02-30-553232 & 03-30-553244, Closed LUST and Closed ERP Site.** The site encompasses the medians at both the west and east side of 88th St. at the intersection of STH 50. A UST was removed from the median on the east side of the median in 2008 during roadway

construction. Samples indicate petroleum contaminated soil was present at the time of the tank removal from approximately 4 to 6 feet bgs on the western end of the UST excavation. The site was closed in 2013.

- **Phase 1 Site 40, D & L Pump and Pantry, 6575 75th St., WDNR BRRTS No. 03-30-001779, Closed LUST Site.** The site was formerly used as a gasoline service station. The site is currently used by Walgreen's store. The site had USTs that contained waste oil, fuel oil, diesel, leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 1995.
- **Phase 1 Site 45, HWY 50 Citgo, 5616 75th St., Closed UST Site.** The site was formerly used by Citgo gasoline service station. That business is no longer active. The site had USTs that contained fuel oil, leaded gasoline and unleaded gasoline. The Phase 1 indicates two 7,500 gallon USTs are present at the site and have not been removed. The site is listed as having historic spills.
- **Phase 1 Site 46, Speedway #7434, 5959 75th St., WDNR BRRTS No. 03-30-542683, Closed LUST Site.** The site is currently used by a Speedway gasoline service station. The site had USTs that contained kerosene, diesel, leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 2009. GIS documents indicate PVOC contaminated soil and groundwater was present at the time of closure radiating out from the western edge of the pump island.
- **Phase 1 Site 50, Bourque Petroleum/L.E. May & Sons, 5210 75th St., WDNR BRRTS No. 03-30-000835, Closed LUST Site.** The site was formerly used as a gasoline service station and is currently used by UG Motors, an auto dealer. The site had USTs that contained leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 1999.
- **Phase 1 Site 57, Super America #4216, 4417 75th St., WDNR BRRTS No. 03-30-003594, Closed LUST Site.** The site was formerly used as a gasoline service station and is currently used by Ayra's Liquor and Cigar. The site had USTs that contained leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 2005. GIS documents indicate that this site, along with sites 58A and 58B, are associated with PVOC contaminated soil and groundwater that spread from the northern edge of the property, near STH 50, south and west into the adjacent 45th St. An open ERP to the south of this property (BRRTS No. 02-30-543696) is associated with perchloroethylene contamination.
- **Phase 1 58B, Town and Country Laundromat, 7513 45th Ave., WDNR BRRTS No. 02-30-543696, Open ERP Site.** The site is currently used by a strip mall that houses the Town and Country Laundromat. The site is associated with soil and groundwater contamination by chlorinated solvents, specifically, perchloroethylene. This site is within or adjacent to the plume of contaminated soil and groundwater associated with sites 57 and 58A.

- **Phase 1 Site 58A, Town and Country Service, 4503 75th St., WDNR BRRTS No. 03-30-001604 & 03-30-557049, Closed LUST Site.** The site was formerly used as a gasoline service station and is currently used by Safeway Auto Sales and Service. The site had USTs that contained leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 2002. GIS documents indicate that this site, along with site 57, are associated with PVOC contaminated soil and groundwater that spread from the northern edge of the property, near STH 50, south and east into the adjacent 45th St.

In addition, TRC recommended that the soil and groundwater investigation include sampling at two additional properties. Information for the sites are summarized below:

- **Phase 1 Site 47, National Pride Auto Center, 5512 75th St., WDNR BRRTS No. 03-30-208654, Closed LUST Site.** The site is currently used by National Pride Auto Center. This business has been associated with auto mechanical services, fluid changes and auto sales. The site had USTs that contained engine waste oil. The LUST case was conditionally closed at this site in 2001.
- **Dickow Cyzak Tile Co., 6403 75th St., WDNR BRRTS No. 03-30-100600, Closed LUST Site.** The site is currently used by Dickow Cyzak Tile Co and a Carpet One retail location. The site had USTs that contained leaded gasoline and unleaded gasoline. The LUST case was closed at this site in 2000. GIS documents indicate PVOC contaminated groundwater was present at the time of closure radiating out from the southern edge of the site building.

Finally, in addition to the acquisition of site 35, the WisDOT will acquire the entirety of one additional property at the northeast corner of STH 50 and STH 31 (Green Bay Road). This property will be investigated. Information for the property is summarized below:

- **Phase 1 Site 21, Jiffy Lube, 7449 Green Bay Rd., AST Site.** The site is currently used by Jiffy Lube, an oil fluid change station. The site has seven ASTs that contain either new or waste engine waste oil.

Available WDNR BRRTs information for the sites listed above is included in Appendix A.

The WisDOT retained TRC to complete a Phase 2.5 Investigation to determine if contaminated soil and groundwater would be encountered during construction along STH 50 (75th St.), from I94 to 43rd Ave.

Details of the Phase 2.5 Investigation are included in this report.

Section 2
Sampling Activities

TRC performed the majority of the Phase 2.5 Investigation field activities from July 24th to July 28th, 2017. A total of 67 soil borings and 15 temporary wells were originally planned during project scoping. Of the 67 soil borings, laboratory analysis of 27 was contingent upon the results of adjacent borings.

A total of 65 soil borings (GP-01 through GP-65) were advanced, during the initial field event, to depths between 4 or 16 feet bgs. Two planned soil borings were not advanced due to site conditions. Both were contingency borings with no signs of contamination in adjacent locations.

Due to detections of PVOC detections found at Phase 1 Site 35, where a total-take acquisition is planned, an additional round of sampling was planned and completed on September 11, 2017. A total of 5 soil borings (GP 66 through GP-70) were advanced to a depth of 16 feet bgs.

Groundwater was not encountered during advancement of the soil probes. As a result, no groundwater samples were collected from any temporary wells installed during the field activities. The soil probe locations are shown on Figures 2 through 9.

During the soil probe activities, soil was continuously sampled, classified, and field-screened using a photoionization detector (PID). In general, the soil profile consisted of silty clay. In some areas, the silty clay was overlain by sandy clay or silty sand. PID readings ranged from less than 1 to 1,413 Instrument Units (IU). Upon completion, the soil borings were abandoned with bentonite. Soil boring logs and borehole abandonment forms are provided in Appendix B.

During the sampling, one to two soil samples were collected from each boring for laboratory analysis. The planned analytical sampling protocol, at sites where no acquisition is planned by the WisDOT, was as follows:

- At sites where the potential for contamination came from unleaded gasoline and/or diesel fuel, soil was sampled for analysis of PVOCs plus naphthalene. If leaded gasoline was historically present, soil was analyzed additionally for lead. One sample from the most contaminated interval, based on field observations, was analyzed for GRO and DRO.
- Where potential contamination exists from chlorinated solvents, collected soil samples were analyzed for VOCs.

- Finally, if waste oil had potentially impacted a site, soil samples from the site were analyzed for VOCs and 8-RCRA metals. Additionally, one sample from the most contaminated interval, based on field observations, was to be analyzed for GRO, DRO, PCBs, 11-RCRA Metals, and Protocol B.

The planned analytical sampling protocol, at sites where acquisition by the WisDOT is planned, was as follows:

- At acquisition sites where unleaded gasoline is or had been stored, soil was sampled for PVOCs plus naphthalene.
- At acquisition sites where waste oil is or has been stored, soil was sampled for VOCs, PCBs, and 11-RCRA Metals.

Photographs taken during fieldwork activities are included in Appendix C.

Section 3
Sampling Results and Evaluation

3.1 Soil Sampling Results

Soil sample laboratory analytical results for the project are summarized in Table 1. The laboratory analytical reports, which include the analytical methods used, are provided in Appendix D.

- GRO was not detected in the soil samples where it was analyzed with the exception of GP-20 (2'-4'), GP-23 (2'-4'), GP-56 (4'-6'), and GP-59 (4'-6'), with concentrations of 0.910 mg/kg (estimated), 1.5 mg/kg (estimated), 1,200 mg/kg, and 810 mg/kg.
- DRO was not detected in the soil samples where it was analyzed with the exception of GP-5 (2'-4'), GP-20 (2'-4'), GP-23 (2'-4'), GP-31 (2'-4'), GP 47 (2'-4'), GP-56 (4'-6'), and GP-59 (4'-6'), with concentrations of 9.9 mg/kg, 6.6 mg/kg, 3.1 mg/kg (estimated), 3.5 mg/kg (estimated), 13 mg/kg, 140 mg/kg, and 39 mg/kg.
- In sample GP-56 (4'-6'), the various VOC concentrations exceeded their given NR 720 Direct Contact RCLs. These include: ethylbenzene (26,000 µg/kg), naphthalene (8,700 µg/kg), and 1,1,2-Tichloroethane (13,000 µg/kg). Concentrations of benzene (700 µg/kg), 1,2,4-trimethylbenzene (51,000 µg/kg), 1,3,5-trimethylbenzene (13,000 µg/kg), and xylenes (41,000 µg/kg) exceeded the respective NR 720 Groundwater Pathway RCL.
- In sample GP-59 (4'-6'), the various PVOC concentrations exceeded their given NR 720 Direct Contact RCLs. These include: benzene (1,900 µg/kg), ethylbenzene (14,000 µg/kg), and naphthalene (16,000 µg/kg). Concentrations of MTBE (6,200 µg/kg), 1,2,4-trimethylbenzene (4,400 µg/kg), 1,3,5-trimethylbenzene (7,400 µg/kg), and xylenes (6,900 µg/kg) exceeded the respective NR 720 Groundwater Pathway RCL.
- In sample GP-56 (0'-2') benzene, at 30 µg/kg exceeded the NR 720 Groundwater Pathway RCL.
- In sample GP-66 (10'-12') MTBE, at 44 µg/kg exceeded the NR 720 Groundwater Pathway RCL
- One or more VOCs/PVOCs were present at non-estimated concentrations that were equal to or less than the respective NR 720 Groundwater Pathway RCLs in samples not mentioned above including: GP-11 (14'-15'), GP-12 (14'-16'), GP-34 (2'-4'), GP-55 (2'-4'), GP-59 (14'-16'), GP-62 (0'-2'), GP-64 (10'-11'), GP-65 (14'-16') and GP-67 (2'-3') .
- Lead was detected in all samples analyzed for lead at concentrations below the Surficial Background Threshold of 52 mg/kg with the exception of GP-41 (2'-4') where the lead concentration was 56 mg/kg, and GP-47 (2'-4') where the lead concentration was 160 mg/kg and 0.050 mg/L (TCLP).

- PCB-1260 was detected, at 110 µg/kg, in GP-47 (2'-4'). This concentration falls between the lower NR 720 RCL for Groundwater Pathway and the higher Direct Contact.

Samples GP-20 (2'-4'), GP-23 (2'-4'), and GP-47 (2'-4') were analyzed for Protocol B. The Protocol B results are included in the lab reports in Appendix D, but are not summarized in this section since they are for landfill waste characterization purposes.

TRC performed calculations using the soil sample laboratory data to determine if the concentrations of detected compounds exceed the calculated Industrial and Non-Industrial Cumulative Hazard Indices, and/or the Cumulative Cancer Risk (see Appendix E for calculations). The results were below the respective calculated Cumulative Hazard Indices and/or the Cumulative Cancer Risk with the exception of GP-18 (2'-4'), GP-20 (10'-12'), GP-43 (2'-4'), and GP-56 (4'-6').

Section 4
Findings, Conclusions, and Recommendations

The results of the Phase 2.5 Investigation indicated that soil contaminated with petroleum and metals is present at several locations along the project corridor. Soil excavated from these locations by the project will require landfill disposal:

- Station 222+40 WB to 223+50 WB from 120 feet left to 70 feet right, from approximately 4 to 16+ feet below grade.
- Station 114+10 GNB to 115+30 GNB from reference line to project limits right, from approximately 1 to 4 feet below grade.
- Station 296+40 WB to 296+95 WB 95' left to 180' left of reference line, from approximately 1 to 16 feet below grade.
- Station 296+95 WB to 298+55 WB 95 feet left to 180 feet left of reference line, from approximately 4 to 16 feet below grade.
- Station 296+65 WB to 298+20 WB 50 feet left to 95 feet left of reference line, from approximately 1 to 8 feet below grade.
- Station 331+00 WB to 332+25 WB from project limits left to 25 feet right, from approximately 1 to 6 feet below grade.
- Station 359+40 EB to 361+00 EB from 25 feet left of reference line to project limits right, from approximately 1 to 6 feet below grade
- Station 361+00 EB to 364+40 EB from 25 feet left of reference line to project limits right, from approximately 1 to 16+ feet below grade.

Special Provisions should be included in the construction documents advising the contractor of these findings, and the requirements to manage contaminated soil excavated by the project. Draft Special Provisions, covering impacted soil to be managed during construction and not via WisDOT acquisition are included in Appendix F.

An excavation management plan should be prepared and submitted to the WDNR for their review and concurrence. The WisDOT's environmental consultant will be present during excavations in the areas of known contamination to field screen and document the excavation activities.

Property acquisition is planned by the WisDOT for Phase 1 sites 21 and 35. Detected contaminants from GP -43 and GP-44, advanced at the Jiffy Lube, Phase 1 site 21, are expected to be background concentrations. Low-level VOC contamination at Phase 1 site 35 has been

detected in deep samples collected from soil borings GP-63, GP-64 and GP-66 and in a shallow sample from boring GP-67. To assist the WisDOT in determining environmental and financial liabilities associated with possible acquisition of the site, TRC prepared an Environmental Liability Financial Analysis. The information provided in the Environmental Liability Financial Analysis should be shared with the WisDOT real estate department. The Environmental Liability Financial Analysis for the site is provided in Appendix G.

Table 1
Soil Sampling Results Summary
Multiple sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin
WisDOT ID #1310-10-00 TRC No. 278962.0000.0000

Analytes[1]	Soil RCL NR 720[4]				Soil Sample ID, Depth (feet bgs), Soil Type, Sample Date																	
					GP-01	GP-02	GP-03		GP-04		GP-05		GP-08		GP-09		GP-10		GP-11		GP-12	
					(6'-8')	(6'-8')	(2'-4')	(6'-8')	(2'-4')	(6'-8')	(2'-4')	(6'-8')	(2'-4')	(6'-8')	(2'-4')	(6'-8')	(2'-4')	(12'-14')	(2'-4')	(14'-15')	(2'-4')	(14'-16')
	Groundwater Pathway[2]	Non-Industrial Direct Contact[3]	Industrial Direct Contact[3]	Surficial Background Threshold[5]	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SAND & SILTY CLAY	SILTY CLAY	SAND & SILTY CLAY	SILTY CLAY	SAND & SILTY CLAY	SILTY CLAY	SAND & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SAND & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY
					SAMPLES COLLECTED ON JULY 24, 2017 THROUGH JULY 28, 2017																	
PID Readings	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GRO (mg/kg)	-	-	-	-	--	--	--	--	--	--	<3	--	--	--	<2.9	--	<2.6	--	--	--	--	--
DRO (mg/kg)	-	-	-	-	--	--	--	--	--	--	9.9	--	--	--	<3.6	--	<1.7	--	--	--	--	--
VOCs/PVOCs (µg/kg)																						
Benzene	5.1	1,600	7,070	-	<21	<21	<19*	<22*	<22 F1*	<18*	<18	<19*	<19*	<23*	<21*	<21*	<19*	<21*	<34	<18	<39*	<18*
n-Butylbenzene	-	108,000	108,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	-	145,000	145,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-	<22	<22	<20	<23	<23 F1*	<19	<18	<20	<20	<24	<22	<22	<20	<22	<36	<19	<42	<19
Isopropylbenzene (Cumene)	-	268,000	268,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	-	162,000	162,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butyl-ether	27	63,800	282,000	-	<14	<14	<13	<14	<15	<12	<21*	<13	<13	<15	<14	<14	<13	<14	<23	<12	<26	<12
Naphthalene	658.2	5,520	24,100	-	170 J	150 J	<130	<140	<150	<120	<23	<130	<130	<150	<140	<140	<130	150 J	<230	300	<260	210 J
N-Propylbenzene	-	264,000	264,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-	<20	<19	<18*	<20*	<21 F1*	<17*	<14	<18*	<18*	<21*	<20*	<20*	<18*	<20*	<32	<17	<37*	<17*
1,1,2-Trichloroethane	3.2	1,590	7,010	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	1382.1[6]	219,000	219,000	-	<18	<17	<16	20 J	<18	<15	<140	<16	<16	<19	<18	<17	<16	<18	<28	38	<33	30
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	<18	<17	<16	<18	<18	<15	<20*	<16	<16	<19	<18	<17	<16	<18	<28	64	<33	36
Xylenes	3,960	260,000	260,000	-	<35	<34	<32	<36	<36	<30	<36	<31	<31	<38	<35	<35	<31	<35	<57	<30	<66	35 J
Metals (mg/kg)																						
Arsenic	0.584	0.677	3.0	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	164.8	15,300	100,000	364	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	0.752	71.1	985	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	360,000	-	-	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	91.6	3,130	46,700	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	27	400	800	52	9.4	12	13	11	15	12	11	11	--	--	--	--	12	10	41	11	42	10
Nickel	13.0612	1,550	22,500	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.52	391	5,840	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	23,500	100,000	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TCLP Metals (mg/L)																						
Barium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs (µg/kg)																						
PCB-1260	9.384[7]	243	1000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HAZARD INDEX (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.0	-	-	0.0010	0.0008	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0008	0.0000	0.0020	0.0000	0.0014
INDUSTRIAL		-	1.0	-	0.0002	0.0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0002	0.0000	0.0004	0.0000	0.0003
CANCER RISK (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.00E-05	-	-	3.1E-08	2.7E-08	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.7E-08	0.0E+00	5.4E-08	0.0E+00	3.8E-08
INDUSTRIAL		-	1.00E-05	-	7.1E-09	6.2E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	6.2E-09	0.0E+00	1.2E-08	0.0E+00	8.7E-09

Notes:
1. PID = Photoionization Detector
2. FID = Flame Ionization Detector
3. GRO = Gasoline Range Organics analyzed using the WDNR WI-GRO method.
4. DRO = Diesel Range Organics analyzed using the WDNR WI-DRO method.
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B.
6. PVOCs = Petroleum Volatile Organic Compounds analyzed using Wisconsin GRO Method .
7. mg/kg = milligrams per kilogram (ppm)
8. µg/kg = micrograms per kilogram (ppb).
9. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
10. - = Standard not established.
11. -- = Parameter not analyzed or sample not field screened.
12. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
13. F1 = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
14. * = LCS or LCSD is outside acceptance limits.
15. V = Serial Dilution exceeds the control limits
16. B = Compound was found in the blank and sample
17. F2 = Matrix Spike and/or Matrix Spike Duplicate Relative Percent Difference exceeds control limits.
18. Results in **BOLD** indicate a detection (or potential detection if J-flagged) above the Non-Industrial or Industrial NR 720 RCL plus the background threshold value.
19. Results in *Italics* indicate a detection (or potential detection if J-flagged) above the Groundwater Pathway NR 720 RCL plus the background threshold value.

Footnotes:
[1] Only analytes that were detected in at least one sample are shown in the table.
[2] Value is the generic RCL for the groundwater pathway.
[3] Value is the generic RCL for exposure by direct contact.
[4] Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
[5] Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
[6] Calculated using WDNR RCL Spreadsheet Calculator (March 2017 Update).
[7] Groundwater pathway RCL is for total PCBs.

Created By: A. Pankow, 8/16/2017
Checked By: B. Perk and L. Auner, 8/23/2017

Table 1 (cont.)
Soil Sampling Results Summary
Multiple sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin
WisDOT ID #1310-10-00 TRC No. 278962.0000.0000

Analytes[1]	Soil RCL NR 720[4]				Soil Sample ID, Depth (feet bgs), Soil Type, Sample Date																	
					GP-13		GP-15		GP-17	GP-18	GP-19	GP-20		GP-23	GP-24		GP-25	GP-26		GP-27	GP-31	
					(2'-4')	(6'-8')	(2'-4')	(6'-8')	(6'-8')	(2'-4')	(2'-4')	(2'-4')	(10'-12')	(2'-4')	(2'-4')	(6'-8')	(2'-4')	(2'-4')	(6'-8')	(2'-4')	(2'-4')	(6'-8')
	Groundwater Pathway[2]	Non-Industrial Direct Contact[3]	Industrial Direct Contact[3]	Surficial Background Threshold[5]	CLAYEY SAND	CLAYEY SAND	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SANDY CLAY & SILTY CLAY	SILTY CLAY	SANDY CLAY & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY & SANDY CLAY	SANDY GRAVEL & SILTY CLAY	SILTY CLAY	SILTY SAND FILL	SILTY CLAY	SILTY CLAY
					SAMPLES COLLECTED ON JULY 24, 2017 THROUGH JULY 28, 2017																	
PID Readings	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
GRO (mg/kg)	-	-	-	-	<2.6	--	--	--	--	--	--	0.910 J	--	1.5 J	--	--	--	--	--	<0.620	<0.650	--
DRO (mg/kg)	-	-	-	-	<2.2	--	--	--	--	--	--	6.6	--	3.1 J	--	--	--	--	--	<2.3	3.5 J	--
VOCs/PVOCs (µg/kg)																						
Benzene	5.1	1,600	7,070	-	<19*	<19*	<12	<9.6	<9.6	<9.2	<11	<9.4	<9.8	<9.6	<9.2	<8.6	<10	<11	<9.5	<9.1	<9.4	<9.8
n-Butylbenzene	-	108,000	108,000	-	--	--	--	--	--	<24	<29	<25	<26	<25	<24	<23	<27	--	--	--	--	--
sec-Butylbenzene	-	145,000	145,000	-	--	--	--	--	--	<25	<30	<26	<27	<26	<25	<23	<28	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-	<20	<21	<14*	<12*	<12*	<12*	<14*	<12*	<12*	<12*	<12*	<11*	<13*	<14*	<12*	<11*	<12*	<12*
Isopropylbenzene (Cumene)	-	268,000	268,000	-	--	--	--	--	--	<24	<29	<25	<26	<25	<24	<23	<27	--	--	--	--	--
p-Isopropyltoluene	-	162,000	162,000	-	--	--	--	--	--	<23	<27	<23	<24	<24	<23	<21	<25	--	--	--	--	--
Methyl-tert-butyl-ether	27	63,800	282,000	-	<13	<13	<31	<26	<26	<25	<29	<25	<26	<26	<25	<23	<28	<31	<26	<25	<25	<26
Naphthalene	658.2	5,520	24,100	-	<130	<130	<26	<22	<22	<21	<25	<22	<22	<22	<21	<20	<23	<26	<22	<21	<22	<22
N-Propylbenzene	-	264,000	264,000	-	--	--	--	--	--	<26	<31	<27	<28	<27	<26	<24	<29	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-	<18*	<18*	<12*	<9.6*	<9.7*	<9.3*	<11*	<9.5*	<9.9*	<9.6*	<9.2*	<8.7*	<10*	<12*	<9.6*	<9.2*	<9.5*	<9.9*
1,1,2-Trichloroethane	3.2	1,590	7,010	-	--	--	--	--	--	<22	<26	<23	<24	<23	<22	<21	<25	--	--	--	--	--
1,2,4-Trimethylbenzene	1382.1[6]	219,000	219,000	-	<16	<16	<28	<23	<24	<23	<27	<23	<24	<23	<23	<21	<25	31 J	<23	<22	<23	<24
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	<16	<16	<30	<25	<25	<24	<28	<25	<26	<25	<24	<22	<27	<30	<25	<24	<25	<26
Xylenes	3,960	260,000	260,000	-	<32	<32	<17	<14	<14	<14	<16	<14	<15	17 J	<14	<13	<15	<17	<14	<14	<14	<15
Metals (mg/kg)																						
Arsenic	0.584	0.677	3.0	8.0	--	--	--	--	--	***10***	--	6.1	***9.4***	5.9	2.9	6.1	4.2	--	--	--	--	--
Barium	164.8	15,300	100,000	364	--	--	--	--	--	54	--	56	29	70	31	40	33	--	--	--	--	--
Cadmium	0.752	71.1	985	1.0	--	--	--	--	--	0.23 B	--	0.28 B	0.18 JB	0.23 B	0.15 J B	0.19 J B	0.29 B	--	--	--	--	--
Chromium	360,000	-	-	44	--	--	--	--	--	20	--	20	16	21	12	19	12	--	--	--	--	--
Copper	91.6	3,130	46,700	35	--	--	--	--	--	--	--	23	--	23	--	--	--	--	--	--	--	--
Lead	27	400	800	52	6.4	3.4	15 F1 V	--	10	14	--	41	12	25	5.1	10	36	16	9.9	7.6	--	--
Nickel	13.0612	1,550	22,500	31	--	--	--	--	--	--	--	32	--	27	--	--	--	--	--	--	--	--
Selenium	0.52	391	5,840	-	--	--	--	--	--	<0.65	--	<0.63	*0.78 J*	<0.57	<0.60	<0.59	<0.66	--	--	--	--	--
Zinc	-	23,500	100,000	150	--	--	--	--	--	--	--	70 B	--	67 B	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-	--	--	--	--	--	0.014 J	--	0.020	0.015 J	0.027	0.0069 J	0.015 J	0.023	--	--	--	--	--
TCLP Metals (mg/L)																						
Barium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs (µg/kg)																						
PCB-1260	9.384[7]	243	1000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HAZARD INDEX (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.0	-	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.2874	0.0000	0.0219	0.2723	0.0017	0.0004	0.0010	0.0015	0.0001	0.0000	0.0000	0.0000	0.0000
INDUSTRIAL		-	1.0	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0210	0.0000	0.0017	0.0199	0.0004	0.0001	0.0002	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000
CANCER RISK (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.00E-05	-	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	**1.5E-05**	0.0E+00	1.9E-09	**1.4E-05**	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
INDUSTRIAL		-	1.00E-05	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.3E-06	0.0E+00	4.3E-10	3.1E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00

Notes:
1. PID = Photoionization Detector
2. FID = Flame Ionization Detector
3. GRO = Gasoline Range Organics analyzed using the WDNR WI-GRO method.
4. DRO = Diesel Range Organics analyzed using the WDNR WI-DRO method.
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B.
6. PVOCs = Petroleum Volatile Organic Compounds analyzed using Wisconsin GRO Method .
7. mg/kg = milligrams per kilogram (ppm)
8. µg/kg = micrograms per kilogram (ppb).
9. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
10. - = Standard not established.
11. -- = Parameter not analyzed or sample not field screened.
12. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
13. F1 = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
14. * = LCS or LCSD is outside acceptance limits.
15. V = Serial Dilution exceeds the control limits
16. B = Compound was found in the blank and sample
17. F2 = Matrix Spike and/or Matrix Spike Duplicate Relative Percent Difference exceeds control limits.
18. Results in **BOLD** indicate a detection (or potential detection if J-flagged) above the Non-Industrial or Industrial NR 720 RCL plus the background threshold value.
19. Results in *Italics* indicate a detection (or potential detection if J-flagged) above the Groundwater Pathway NR 720 RCL plus the background threshold value.

Footnotes:
[1] Only analytes that were detected in at least one sample are shown in the table.
[2] Value is the generic RCL for the groundwater pathway.
[3] Value is the generic RCL for exposure by direct contact.
[4] Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
[5] Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
[6] Calculated using WDNR RCL Spreadsheet Calculator (March 2017 Update).
[7] Groundwater pathway RCL is for total PCBs.

Created By: A. Pankow, 8/16/2017
Checked By: B. Perk and L. Auner, 8/23/2017

Table 1 (cont.)
Soil Sampling Results Summary
Multiple sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin
WisDOT ID #1310-10-00 TRC No. 278962.0000.0000

Analytes[1]	Soil RCL NR 720[4]				Soil Sample ID, Depth (feet bgs), Soil Type, Sample Date																
					GP-32		GP-33		GP-34		GP-35		GP-36	GP-39	GP-40		GP-41	GP-43		GP-44		GP-46
					(2'-4')	(6'-8')	(2'-4')	(6'-8')	(2'-4')	(10'-11')	(2'-4')	(6'-8")	(2'-4')	(2'-4')	(2'-4')	(6'-8')	(2'-4')	(2'-4')	(14'-16')	(2'-4')	(14'-15')	(2'-4')
	Groundwater Pathway[2]	Non-Industrial Direct Contact[3]	Industrial Direct Contact[3]	Surficial Background Threshold[5]	SILTY CLAY & GRAVELLY SAND	SILTY CLAY	SILTY CLAY	SILTY CLAY	SANDY CLAY & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	GRAVELLY SAND & SILTY CLAY	SANDY CLAY	SILTY CLAY & SANDY CLAY	SILTY CLAY	GRAVEL, SANDY CLAY & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY
					SAMPLES COLLECTED ON JULY 24, 2017 THROUGH JULY 28, 2017																	
PID Readings	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	1.3	<1	<1	<1	1.6	<1	<1	1.0	<1	--
GRO (mg/kg)	-	-	-	-	--	--	<3.0	--	--	--	--	--	--	--	--	--	<2.9	--	--	--	--	--
DRO (mg/kg)	-	-	-	-	--	--	<1.9	--	--	--	--	--	--	--	--	--	<1.8	--	--	--	--	--
VOCs/PVOCs (µg/kg)																						
Benzene	5.1	1,600	7,070	-	<10	<9.4	<22	<21	<18	<20	<20	<21	<21	<21	<22	<21	<21	<9.9*	<9.6*	<9.7*	<9.6*	<10
n-Butylbenzene	-	108,000	108,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<26*	<25*	<26*	<26*	<27
sec-Butylbenzene	-	145,000	145,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<27	<26	<27	<26	<28
Ethylbenzene	1,570	8,020	35,400	-	<13*	<12*	<23	<22	19 J	<21	<21	<22	<23	<22	<23	<23	<22	<12*	<12*	<12*	<12*	<13
Isopropylbenzene (Cumene)	-	268,000	268,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<26	<25	<26	<25	<25
p-Isopropyltoluene	-	162,000	162,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<25	<24	<24	<24	<27
Methyl-tert-butyl-ether	27	63,800	282,000	-	<27	<25	<14	<14	<12	<14	<13	<14	<14	<14	<14	<14	<14	<27*	<26*	<26*	<26*	<28
Naphthalene	658.2	5,520	24,100	-	<23	<21	<140	<140	<120	<140	<130	<140	<140	<140	<140	<140	<140	<23	<22	<22	<22	64 J
N-Propylbenzene	-	264,000	264,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<28	<27	<28	<27	<29
Toluene	1,107.2	818,000	818,000	-	<10*	<9.4*	<20	<19	43	<19	<18	<20	<20	<20	<20	<20	<20	<10*	<9.6*	<9.8*	<9.7*	<10
1,1,2-Trichloroethane	3.2	1,590	7,010	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<24	<23	<23	<23	<25
1,2,4-Trimethylbenzene	1382.1[6]	219,000	219,000	-	<25	<23	<18	<17	43	<17	<16	<18	<18	<18	<18	<18	<17	<24	<23	<24	<24	<25
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	<26	<24	<18	<17	32	<17	<16	<18	<18	<18	<18	<18	<17	<26	<25	<25	<25	<27
Xylenes	3,960	260,000	260,000	-	<15	<14	<36	<34	76	<34	<33	<35	<36	<35	<36	<36	<35	<15*	<14*	<15*	<14*	<15
Metals (mg/kg)																						
Arsenic	0.584	0.677	3.0	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	***9.0***	4.3	6.5	5.3	6.4
Barium	164.8	15,300	100,000	364	--	--	--	--	--	--	--	--	--	--	--	--	--	73	43	48	42	67 V
Cadmium	0.752	71.1	985	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	0.13 J	0.18 J	0.32	0.22	0.29 B
Chromium	360,000	-	-	44	--	--	--	--	--	--	--	--	--	--	--	--	--	24	16	15	17	21 F1 F2
Copper	91.6	3,130	46,700	35	--	--	--	--	--	--	--	--	--	--	--	--	--	28	19	22	20	--
Lead	27	400	800	52	--	--	11	9.7	25	11	16	10	21	13	21	8.6	*56*	18	9.6	18	9.7	22 F1 F2 V
Nickel	13.0612	1,550	22,500	31	--	--	--	--	--	--	--	--	--	--	--	--	--	*38 B*	27 B	24	30	--
Selenium	0.52	391	5,840	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<0.62	<0.64	<0.59	<0.58	<0.63 F1
Zinc	-	23,500	100,000	150	--	--	--	--	--	--	--	--	--	--	--	--	--	79	41	61	46	--
Mercury	0.208	3.13	3.13	-	--	--	--	--	--	--	--	--	--	--	--	--	--	0.041	0.038	0.046	0.033	0.042
TCLP Metals (mg/L)																						
Barium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs (µg/kg)																						
PCB-1260	9.384[7]	243	1000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	<9.4	<9.2	<9.5	<9.5	--
HAZARD INDEX (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.0	-	-	0.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.1400	0.2850	0.0024	0.0029	0.0021	0.0030
INDUSTRIAL		-	1.0	-	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0700	0.0211	0.0006	0.0007	0.0005	0.0007
CANCER RISK (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.00E-05	-	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	**1.3E-05**	0.0E+00	0.0E+00	0.0E+00	1.2E-08
INDUSTRIAL		-	1.00E-05	-	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.4E-10	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.0E-06	0.0E+00	0.0E+00	0.0E+00	2.7E-09

Notes:
1. PID = Photoionization Detector
2. FID = Flame Ionization Detector
3. GRO = Gasoline Range Organics analyzed using the WDNR WI-GRO method.
4. DRO = Diesel Range Organics analyzed using the WDNR WI-DRO method.
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B.
6. PVOCs = Petroleum Volatile Organic Compounds analyzed using Wisconsin GRO Method .
7. mg/kg = milligrams per kilogram (ppm)
8. µg/kg = micrograms per kilogram (ppb).
9. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
10. - = Standard not established.
11. -- = Parameter not analyzed or sample not field screened.
12. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
13. F1 = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
14. * = LCS or LCSD is outside acceptance limits.
15. V = Serial Dilution exceeds the control limits
16. B = Compound was found in the blank and sample
17. F2 = Matrix Spike and/or Matrix Spike Duplicate Relative Percent Difference exceeds control limits.
18. Results in **BOLD** indicate a detection (or potential detection if J-flagged) above the Non-Industrial or Industrial NR 720 RCL plus the background threshold value.
19. Results in *Italics* indicate a detection (or potential detection if J-flagged) above the Groundwater Pathway NR 720 RCL plus the background threshold value.

Footnotes:
[1] Only analytes that were detected in at least one sample are shown in the table.
[2] Value is the generic RCL for the groundwater pathway.
[3] Value is the generic RCL for exposure by direct contact.
[4] Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
[5] Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
[6] Calculated using WDNR RCL Spreadsheet Calculator (March 2017 Update).
[7] Groundwater pathway RCL is for total PCBs.

Created By: A. Pankow, 8/16/2017
Checked By: B. Perk and L. Auner, 8/23/2017

Table 1 (cont.)
Soil Sampling Results Summary
Multiple sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin
WisDOT ID #1310-10-00 TRC No. 278962.0000.0000

Analytes[1]	Soil RCL NR 720[4]				Soil Sample ID, Depth (feet bgs), Soil Type, Sample Date																	
					GP-47		GP-48	GP-51		GP-52	GP-53	GP-54	GP-55		GP-56		GP-57		GP-58		GP-59	
					(2'-4')	(6'-8')	(2'-4')	(2'-4')	(14'-16')	(2'-4')	(2'-4')	(2'-4')	(2'-4')	(6'-8')	(0'-2')	(4'-6')	(0'-2')	(4'-6')	(2'-4')	(6'-8')	(4'-6')	(14'-16)
	Groundwater Pathway[2]	Non-Industrial Direct Contact[3]	Industrial Direct Contact[3]	Surficial Background Threshold[5]	SAND & SANDY CLAY	SILTY CLAY	SANDY GRAVEL & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	GRAVELLY SAND	SILTY CLAY	SILTY CLAY	SILTY CLAY	TOPSOIL, SANDY GRAVEL & SILTY CLAY	SILTY CLAY	TOPSOIL & SILTY CLAY	SILTY CLAY	SILTY SAND & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY
					SAMPLES COLLECTED ON JULY 24, 2017 THROUGH JULY 28, 2017																	
PID Readings	-	-	-	-	<1	<1	<1	<1	<1	<1	<1	<1	5.0	<1	230.8	764.7	<1	<1	<1	<1	1,413	4.8
GRO (mg/kg)	-	-	-	-	<0.7	--	--	--	--	--	<2.7	--	--	--	--	1,200	--	--	--	--	810	--
DRO (mg/kg)	-	-	-	-	13	--	--	--	--	--	<1.7	--	--	--	--	140.0	--	--	--	--	39.0	--
VOCs/PVOCs (µg/kg)																						
Benzene	5.1	1,600	7,070	-	<10	<11	<9.8	<23	<20	<22	<19	<22	<9.9	<9.4	*30*	*700*	<8.8	<9.6	<11	<10	***1900***	<20
n-Butylbenzene	-	108,000	108,000	-	<27	<29	<26	--	--	--	--	--	<26	<25	<22	5400	<23	<26	<29	<27	--	--
sec-Butylbenzene	-	145,000	145,000	-	<28	<30	<27	--	--	--	--	--	<27	<26	<22	910	<24	<26	<30	<28	--	--
Ethylbenzene	1,570	8,020	35,400	-	<13	<14	<12	<24	<21	<23	<20	<23	<12	<12	20	***26000***	<11	<12	<14	<13	***14000***	<21
Isopropylbenzene (Cumene)	-	268,000	268,000	-	<27	<29	<26	--	--	--	--	--	<26	<25	<21	2000	<23	<25	<29	<27	--	--
p-Isopropyltoluene	-	162,000	162,000	-	<25	<27	<24	--	--	--	--	--	<24	<23	<20	490	<22	<24	<27	<25	--	--
Methyl-tert-butyl-ether	27	63,800	282,000	-	<28	<30	<26	<15	<13	<15	<13	<15	<27	<25	<22	<29	<24	<26	<30	<27	*6200*	<13
Naphthalene	658.2	5,520	24,100	-	<23	<25	<22	<150	<130	210 J	<130	<150	2800	30 J	69	***8700***	<20	<22	<25	<23	***16000***	290
N-Propylbenzene	-	264,000	264,000	-	<29	<31	<28	--	--		--	--	<28	<27	<23	8700	<25	<27	<31	<29	--	--
Toluene	1,107.2	818,000	818,000	-	<10	<11	<9.8	<21	<19	<21	<18	<21	10 J	<9.4	<8.2	230	<8.9	<9.7	<11	<10	850	27 J
1,1,2-Trichloroethane	3.2	1,590	7,010	-	<25	<27	<24	--	--	--	--	--	<24	<23	<20	***13000***	<21	<25	<27	<24	--	--
1,2,4-Trimethylbenzene	1382.1[6]	219,000	219,000	-	<25	<27	<24	<19	<17	28 J	<16	<18	<24	<23	<20	*51000*	<22	<24	<27	<25	*4400*	49
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	<27	<29	<25	<19	<17	27 J	<16	<18	<26	<24	<21	*13000*	<23	<25	<29	<26	*7400*	32
Xylenes	3,960	260,000	260,000	-	<15	<17	<15	<38	<34	<37	<32	<36	<15	<14	25 J	*41000*	<13	<15	<17	<15	*6900*	<33
Metals (mg/kg)																						
Arsenic	0.584	0.677	3.0	8.0	3.4	3.1	6.2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	164.8	15,300	100,000	364	36	40	75	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	0.752	71.1	985	1.0	0.85 B	0.25 B	0.34 B	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	360,000	-	-	44	17	22	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	91.6	3,130	46,700	35	83	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	27	400	800	52	*160*	13	25	20	15	12	10	10	36	10	15	16	12	8.9	18	11	19	9.4
Nickel	13.0612	1,550	22,500	31	13	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.52	391	5,840	-	<0.60	0.81 J	<0.66	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	23,500	100,000	150	170	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-	0.075	0.036	0.0072 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TCLP Metals (mg/L)																						
Barium	-	-	-	-	0.28 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	-	-	-	-	0.0095	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	-	-	-	-	0.040	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	-	-	-	-	0.050	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	-	-	-	-	0.020 J	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	-	-	-	0.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs (µg/kg)																						
PCB-1260	9.384[7]	243	1000	-	*110*	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HAZARD INDEX (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.0	-	-	0.4385	0.0044	0.0005	0.0000	0.0000	0.0013	0.0000	0.0000	0.0157	0.0002	0.0007	**3.6098**	0.0000	0.0000	0.0000	0.0000	0.1537	0.0019
INDUSTRIAL		-	1.0	-	0.2034	0.0007	0.0001	0.0000	0.0000	0.0003	0.0000	0.0000	0.0034	0.0000	0.0001	**1.4793**	0.0000	0.0000	0.0000	0.0000	0.0305	0.0004
CANCER RISK (CUMULATIVE)[5]																						
NON-INDUSTRIAL		1.00E-05	-	-	4.5E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	3.8E-08	0.0E+00	0.0E+00	5.1E-07	5.4E-09	3.4E-08	**1.3E-05**	0.0E+00	0.0E+00	0.0E+00	0.0E+00	5.9E-06	5.30E-08
INDUSTRIAL		-	1.00E-05	-	1.1E-07	0.0E+00	0.0E+00	0.0E+00	0.0E+00	8.7E-09	0.0E+00	0.0E+00	1.2E-07	1.2E-09	7.7E-09	3.0E-06	0.0E+00	0.0E+00	0.0E+00	0.0E+00	1.4E-06	1.20E-08

Notes:
1. PID = Photoionization Detector
2. FID = Flame Ionization Detector
3. GRO = Gasoline Range Organics analyzed using the WDNR WI-GRO method.
4. DRO = Diesel Range Organics analyzed using the WDNR WI-DRO method.
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B.
6. PVOCs = Petroleum Volatile Organic Compounds analyzed using Wisconsin GRO Method .
7. mg/kg = milligrams per kilogram (ppm)
8. µg/kg = micrograms per kilogram (ppb).
9. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
10. - = Standard not established.
11. -- = Parameter not analyzed or sample not field screened.
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13. F1 = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
14. * = LCS or LCSD is outside acceptance limits.
15. V = Serial Dilution exceeds the control limits
16. B = Compound was found in the blank and sample
17. F2 = Matrix Spike and/or Matrix Spike Duplicate Relative Percent Difference exceeds control limits.
18. Results in **BOLD** indicate a detection (or potential detection if J-flagged) above the Non-Industrial or Industrial NR 720 RCL plus the background threshold value.
19. Results in *Italics* indicate a detection (or potential detection if J-flagged) above the Groundwater Pathway NR 720 RCL plus the background threshold value.

Footnotes:
(1) Only analytes that were detected in at least one sample are shown in the table.
(2) Value is the generic RCL for the groundwater pathway.
(3) Value is the generic RCL for exposure by direct contact.
(4) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (March 2017 Update).
(7) Groundwater pathway RCL is for total PCBs.

Created By: A. Pankow, 8/16/2017
Checked By: B. Perk and L. Auner, 8/23/2017

Table 1 (cont.)
Soil Sampling Results Summary
Multiple sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin
WisDOT ID #1310-10-00 TRC No. 278962.0000.0000

Analytes[1]	Soil RCL NR 720[4]				Soil Sample ID, Depth (feet bgs), Soil Type, Sample Date															
					GP-60		GP-62		GP-63		GP-64		GP-65		GP-66		GP-67		GP-68	
					(0'-2')	(6'-8')	(0'-2')	(4'-6')	(2'-4')	(14'-16')	(2'-4')	(10'-11')	(2'-4')	(14'-16')	(2-4)	(10-12)	(2-3)	(12-14)	(2-4)	(8-9)
	Groundwater Pathway[2]	Non-Industrial Direct Contact[3]	Industrial Direct Contact[3]	Surficial Background Threshold[5]	SILTY GRAVEL & SILTY CLAY	SILTY CLAY	GRAVEL, SAND & SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SILTY CLAY	SAND	CLAY	SILTY CLAY	SILTY CLAY	CLAY	CLAY	CLAY
					SAMPLES COLLECTED ON JULY 24, 2017 THROUGH JULY 28, 2017										SAMPLES COLLECTED ON SEPTEMBER 11, 2017					
PID Readings	-	-	-	-	1.6	<1	<1	<1	1.3	--	2.1	<1	<1	<1	1.4	<1	12.8	<1	<1	<1
GRO (mg/kg)	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DRO (mg/kg)	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
VOCs/PVOCs (µg/kg)																				
Benzene	5.1	1,600	7,070	-	<22	<21	<22	<23	<31	<21	<32	<18	<40	<23	< 18	< 22	< 24	< 21	< 21	< 19
n-Butylbenzene	-	108,000	108,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
sec-Butylbenzene	-	145,000	145,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Ethylbenzene	1,570	8,020	35,400	-	<23	<22	26 J	<25	<33	<23	<34	<19	<42	<24	< 19	< 23	< 25	< 22	< 22	< 20
Isopropylbenzene (Cumene)	-	268,000	268,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
p-Isopropyltoluene	-	162,000	162,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Methyl-tert-butyl-ether	27	63,800	282,000	-	<15	<14	<14	<16	29 J	<14	<22	<12	<27	<15	< 12	*44*	< 16	< 14	< 14	< 13
Naphthalene	658.2	5,520	24,100	-	<150	<140	<140	<160	<210	260 J	<220	330	<270	<150	< 120	< 140	< 160	< 140	< 140	< 130
N-Propylbenzene	-	264,000	264,000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Toluene	1,107.2	818,000	818,000	-	<21	<20	43	<22	<30	<20	<31	<17	<38	<21	< 17	< 21	< 22	< 20	< 20	< 18
1,1,2-Trichloroethane	3.2	1,590	7,010	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
1,2,4-Trimethylbenzene	1382.1[6]	219,000	219,000	-	<18	<18	35	<19	<26	18 J	<27	27	<33	45	< 15	< 18	< 20	< 17	< 17	< 16
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	<18	<18	<18	<19	<26	<18	<27	18 J	<33	<19	< 15	< 18	< 20	< 17	< 17	< 16
Xylenes	3,960	260,000	260,000	-	<37	<36	64 J	<39	<52	<36	<54	<30	<67	<38	< 30	< 36	140	< 35	< 35	< 32
Metals (mg/kg)																				
Arsenic	0.584	0.677	3.0	8.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	164.8	15,300	100,000	364	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	0.752	71.1	985	1.0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Chromium	360,000	-	-	44	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	91.6	3,130	46,700	35	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	27	400	800	52	19.0	--	22	10	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	13.0612	1,550	22,500	31	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	0.52	391	5,840	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	23,500	100,000	150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
TCLP Metals (mg/L)																				
Barium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	-	-	-	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
PCBs (µg/kg)																				
PCB-1260	9.384[7]	243	1000	-	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
HAZARD INDEX (CUMULATIVE)[5]																				
NON-INDUSTRIAL		1.0	-	-	0.0000	0.0000	0.0002	0.0000	0.0000	0.0015	0.0000	0.0020	0.0000	0.0001	--	0.0000	0.0002	--	--	--
INDUSTRIAL		-	1.0	-	0.0000	0.0000	0.0000	0.0000	0.0000	0.0003	0.0000	0.0004	0.0000	0.0000	--	0.0000	0.0000	--	--	--
CANCER RISK (CUMULATIVE)[5]																				
NON-INDUSTRIAL		1.00E-05	-	-	0.0E+00	0.0E+00	3.2E-09	0.0E+00	4.5E-10	4.7E-08	0.0E+00	6.0E-08	0.0E+00	0.0E+00	--	6.9E-10	0.0E+00	--	--	--
INDUSTRIAL		-	1.00E-05	-	0.0E+00	0.0E+00	7.3E-10	0.0E+00	1.0E-10	1.1E-08	0.0E+00	1.4E-08	0.0E+00	0.0E+00	--	1.6E-10	0.0E+00	--	--	--

Notes:
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(2) Value is the generic RCL for the groundwater pathway.
(3) Value is the generic RCL for exposure by direct contact.
(4) Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
(5) Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
(6) Calculated using WDNR RCL Spreadsheet Calculator (March 2017 Update).
(7) Groundwater pathway RCL is for total PCBs.

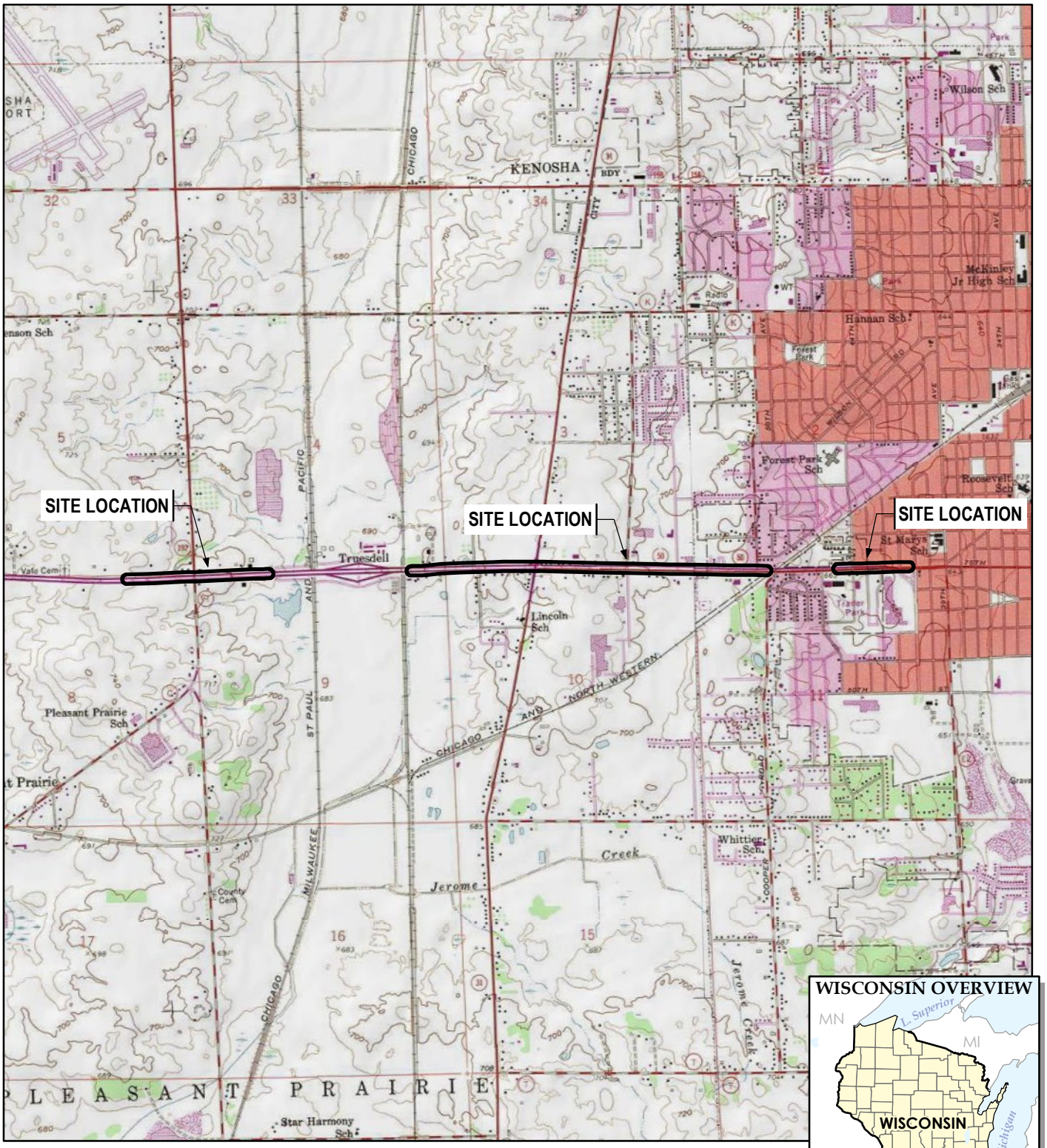
Table 1 (cont.)
Soil Sampling Results Summary
Multiple sites along STH 50 (75th St.)
Kenosha, Kenosha County, Wisconsin
WisDOT ID #1310-10-00 TRC No. 278962.0000.0000

Analytes[1]	Soil RCL NR 720[4]				Soil Sample ID, Depth (feet bgs), Soil Type, Sample Date				TRIP BLANK	TRIP BLANK	TRIP BLANK	TRIP BLANK
					GP-69		GP-70					
					(2-3)	(10.5-11.5)	(4-6)	(10-10.5)				
	Groundwater Pathway[2]	Non-Industrial Direct Contact[3]	Industrial Direct Contact[3]	Surficial Background Threshold[5]	CLAY	CLAY	CLAY	CLAY				
					SAMPLES COLLECTED ON SEPTEMBER 11, 2017				7/24/17	7/26/17	7/27/17	7/28/17
PID Readings	-	-	-	-	1.4	<1	1.1	<1	--	--	--	--
GRO (mg/kg)	-	-	-	-	--	--	--	--	--	--	--	--
DRO (mg/kg)	-	-	-	-	--	--	--	--	--	--	--	--
VOCs/PVOCs (µg/kg)												
Benzene	5.1	1,600	7,070	-	< 20	< 19	< 22	< 22	<18*	<7.3*	<7.3	<18
n-Butylbenzene	-	108,000	108,000	-	--	--	--	--	--	<19*	<19	--
sec-Butylbenzene	-	145,000	145,000	-	--	--	--	--	--	<20	<20	--
Ethylbenzene	1,570	8,020	35,400	-	< 22	< 20	< 23	< 23	<19	<9.2*	<9.2	<19
Isopropylbenzene (Cumene)	-	268,000	268,000	-	--	--	--	--	--	<19	<19	--
p-Isopropyltoluene	-	162,000	162,000	-	--	--	--	--	--	<18	<18	--
Methyl-tert-butyl-ether	27	63,800	282,000	-	< 14	< 13	< 15	< 15	<12	<20*	<20	<12
Naphthalene	658.2	5,520	24,100	-	< 140	< 130	< 150	< 150	<120	<17	<17	<120
N-Propylbenzene	-	264,000	264,000	-	--	--	--	--	--	<21	<21	--
Toluene	1,107.2	818,000	818,000	-	< 19	< 18	< 21	< 21	<17*	<7.4*	<7.4	<17
1,1,2-Trichloroethane	3.2	1,590	7,010	-	--	--	--	--	--	<18	<18	--
1,2,4-Trimethylbenzene	1382.1[6]	219,000	219,000	-	< 17	< 16	< 18	< 18	<15	<18	<18	<15
1,3,5-Trimethylbenzene	1382.1[6]	182,000	182,000	-	< 17	< 16	< 18	< 18	<15	<19	<19	<15
Xylenes	3,960	260,000	260,000	-	< 34	< 32	< 37	< 37	<30	<11*	<11	<30
Metals (mg/kg)												
Arsenic	0.584	0.677	3.0	8.0	--	--	--	--	--	--	--	--
Barium	164.8	15,300	100,000	364	--	--	--	--	--	--	--	--
Cadmium	0.752	71.1	985	1.0	--	--	--	--	--	--	--	--
Chromium	360,000	-	-	44	--	--	--	--	--	--	--	--
Copper	91.6	3,130	46,700	35	--	--	--	--	--	--	--	--
Lead	27	400	800	52	--	--	--	--	--	--	--	--
Nickel	13.0612	1,550	22,500	31	--	--	--	--	--	--	--	--
Selenium	0.52	391	5,840	-	--	--	--	--	--	--	--	--
Zinc	-	23,500	100,000	150	--	--	--	--	--	--	--	--
Mercury	0.208	3.13	3.13	-	--	--	--	--	--	--	--	--
TCLP Metals (mg/L)												
Barium	-	-	-	-	--	--	--	--	--	--	--	--
Cadmium	-	-	-	-	--	--	--	--	--	--	--	--
Copper	-	-	-	-	--	--	--	--	--	--	--	--
Lead	-	-	-	-	--	--	--	--	--	--	--	--
Nickel	-	-	-	-	--	--	--	--	--	--	--	--
Zinc	-	-	-	-	--	--	--	--	--	--	--	--
PCBs (µg/kg)												
PCB-1260	9.384[7]	243	1000	-	--	--	--	--	--	--	--	--
HAZARD INDEX (CUMULATIVE)[5]												
NON-INDUSTRIAL		1.0	-	-	--	--	--	--	--	--	--	--
INDUSTRIAL		-	1.0	-	--	--	--	--	--	--	--	--
CANCER RISK (CUMULATIVE)[5]												
NON-INDUSTRIAL		1.00E-05	-	-	--	--	--	--	--	--	--	--
INDUSTRIAL		-	1.00E-05	-	--	--	--	--	--	--	--	--

Notes:
1. PID = Photoionization Detector
2. FID = Flame Ionization Detector
3. GRO = Gasoline Range Organics analyzed using the WDNR WI-GRO method.
4. DRO = Diesel Range Organics analyzed using the WDNR WI-DRO method.
5. VOCs = Volatile Organic Compounds analyzed using EPA Method 8260B.
6. PVOCs = Petroleum Volatile Organic Compounds analyzed using Wisconsin GRO Method .
7. mg/kg = milligrams per kilogram (ppm)
8. µg/kg = micrograms per kilogram (ppb).
9. Samples were collected by TRC and analyzed by Test America (Wisconsin Certification ID 999580010).
10. - = Standard not established.
11. -- = Parameter not analyzed or sample not field screened.
12. J = Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
13. F1 = Matrix Spike and/or Matrix Spike Duplicate Recovery is outside acceptance limits.
14. * = LCS or LCSD is outside acceptance limits.
15. V = Serial Dilution exceeds the control limits
16. B = Compound was found in the blank and sample
17. F2 = Matrix Spike and/or Matrix Spike Duplicate Relative Percent Difference exceeds control limits.
18. Results in **BOLD** indicate a detection (or potential detection if J-flagged) above the Non-Industrial or Industrial NR 720 RCL plus the background threshold value.
19. Results in *Italics* indicate a detection (or potential detection if J-flagged) above the Groundwater Pathway NR 720 RCL plus the background threshold value.

Footnotes:
[1] Only analytes that were detected in at least one sample are shown in the table.
[2] Value is the generic RCL for the groundwater pathway.
[3] Value is the generic RCL for exposure by direct contact.
[4] Calculated from http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search using default exposure assumptions listed in NR 720.12(3).
[5] Background threshold value (BTV) was taken from the Wisconsin DNR's NR 720 RCL spreadsheet.
[6] Calculated using WDNR RCL Spreadsheet Calculator (March 2017 Update).
[7] Groundwater pathway RCL is for total PCBs.

Created By: A. Pankow, 8/16/2017
Checked By: B. Perk and L. Auner, 8/23/2017
Created By: R. Hartwick 9/19/2017
Checked By: T. Stapel 9/20/2017



BASE MAP FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE SERIES.

N

1 " = 3,000 '
1:36,000

0 3,000 6,000 FEET

TRC

708 Heartland Trail
Suite 3000
Madison, WI 53717
Phone: 608.826.3600

TRC - GIS

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SITE LOCATION MAP

DRAWN BY:	R SUEMNICHT
CHECKED BY:	D HAAK
APPROVED BY:	T STAPEL
DATE:	OCTOBER 2017
PROJ. NO.:	278962
FILE:	278962-001slm.mxd

FIGURE 1

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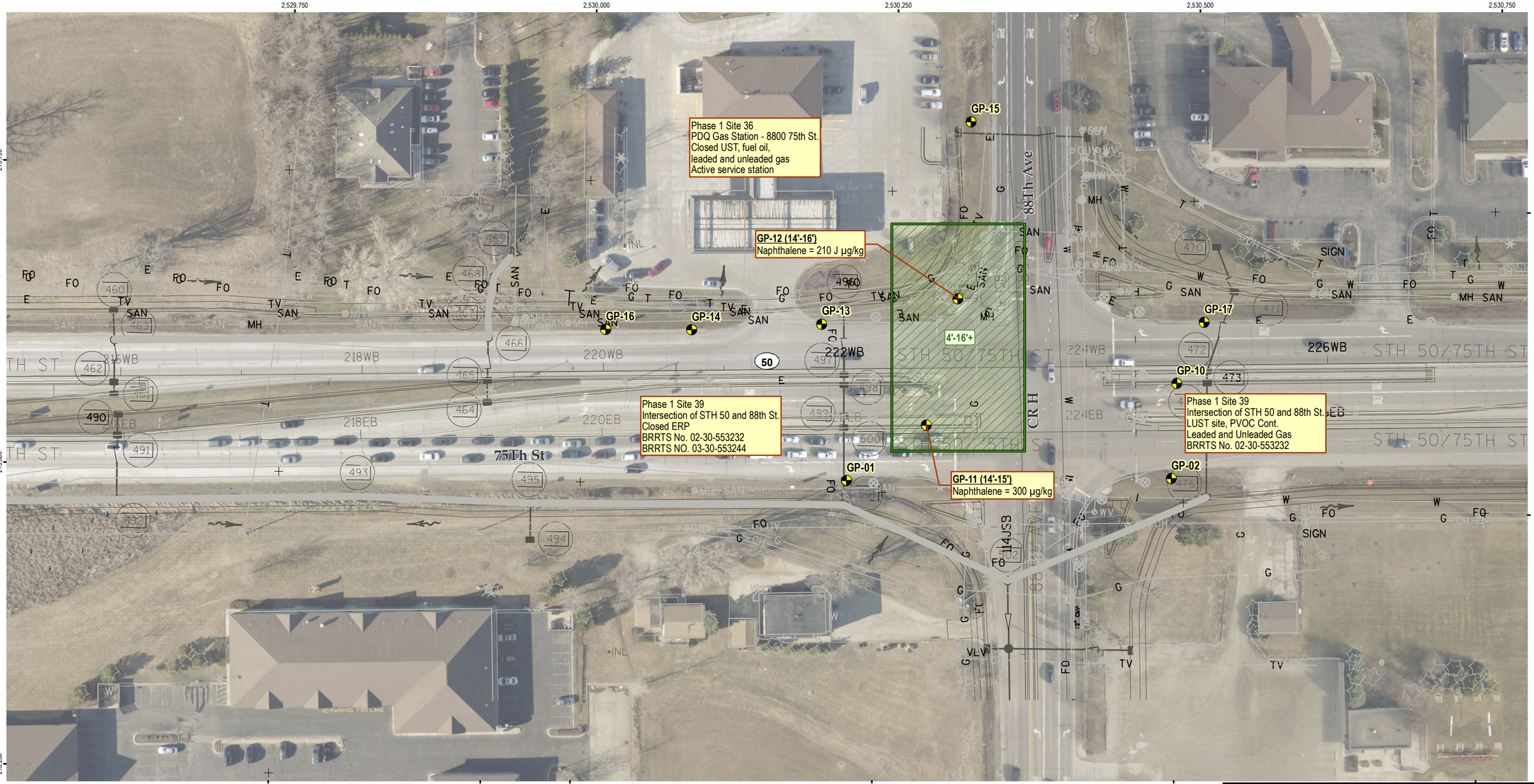


LEGEND

- SOIL BORING LOCATION
- BIOREMEDIATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

N

0 80 160 Feet

1 " = 80 '

1:960

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

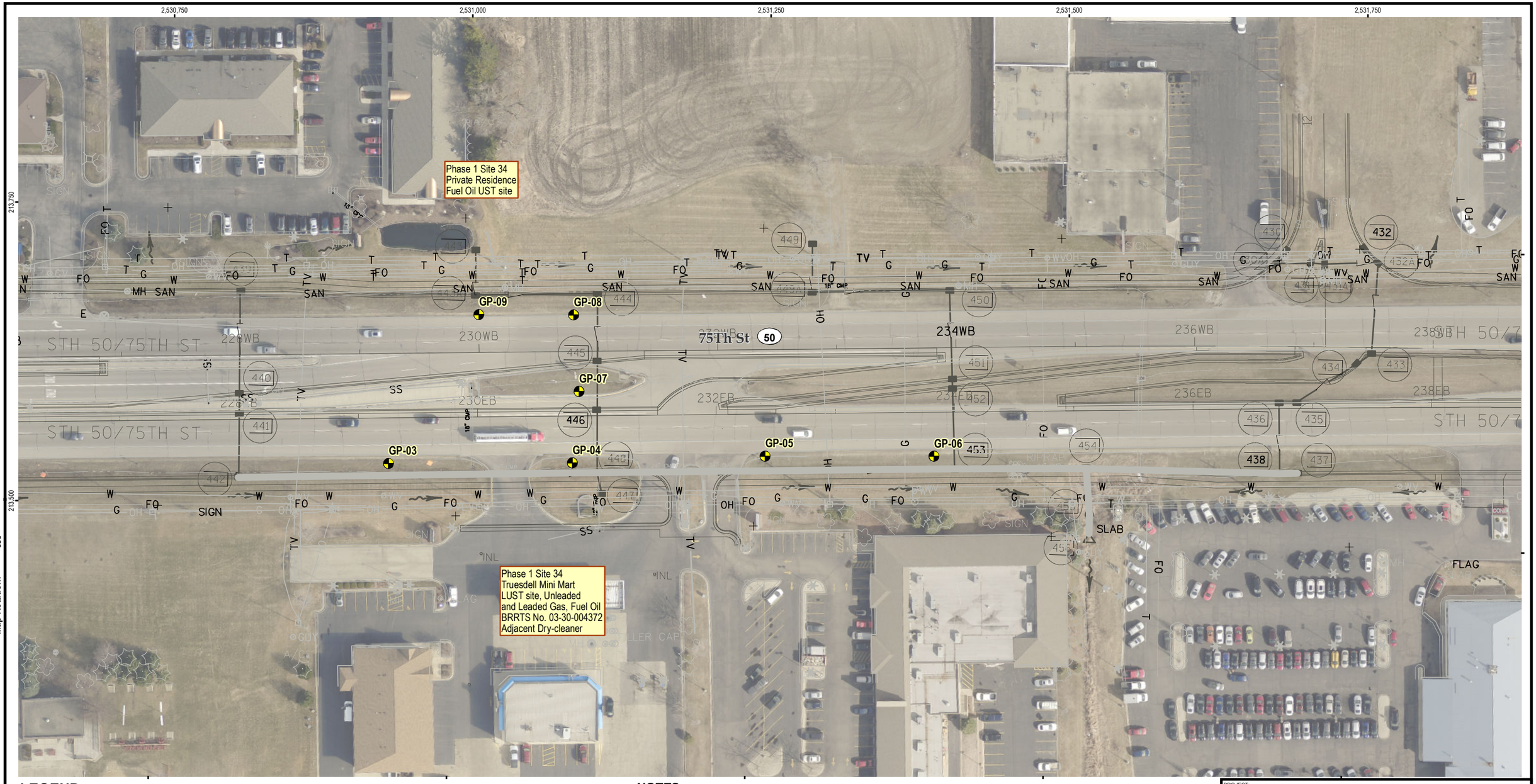
DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		
DATE:	OCTOBER 2017		

FIGURE 2

TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

FILE NO.: 278962-002mb.mxd

Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
Path: E:\WI_DOT\2017_278962\278962-002mb.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 358
TRC - GIS



LEGEND

- SOIL BORING LOCATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

N

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		**FIGURE 3**
DATE:	OCTOBER 2017		

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Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 358
Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
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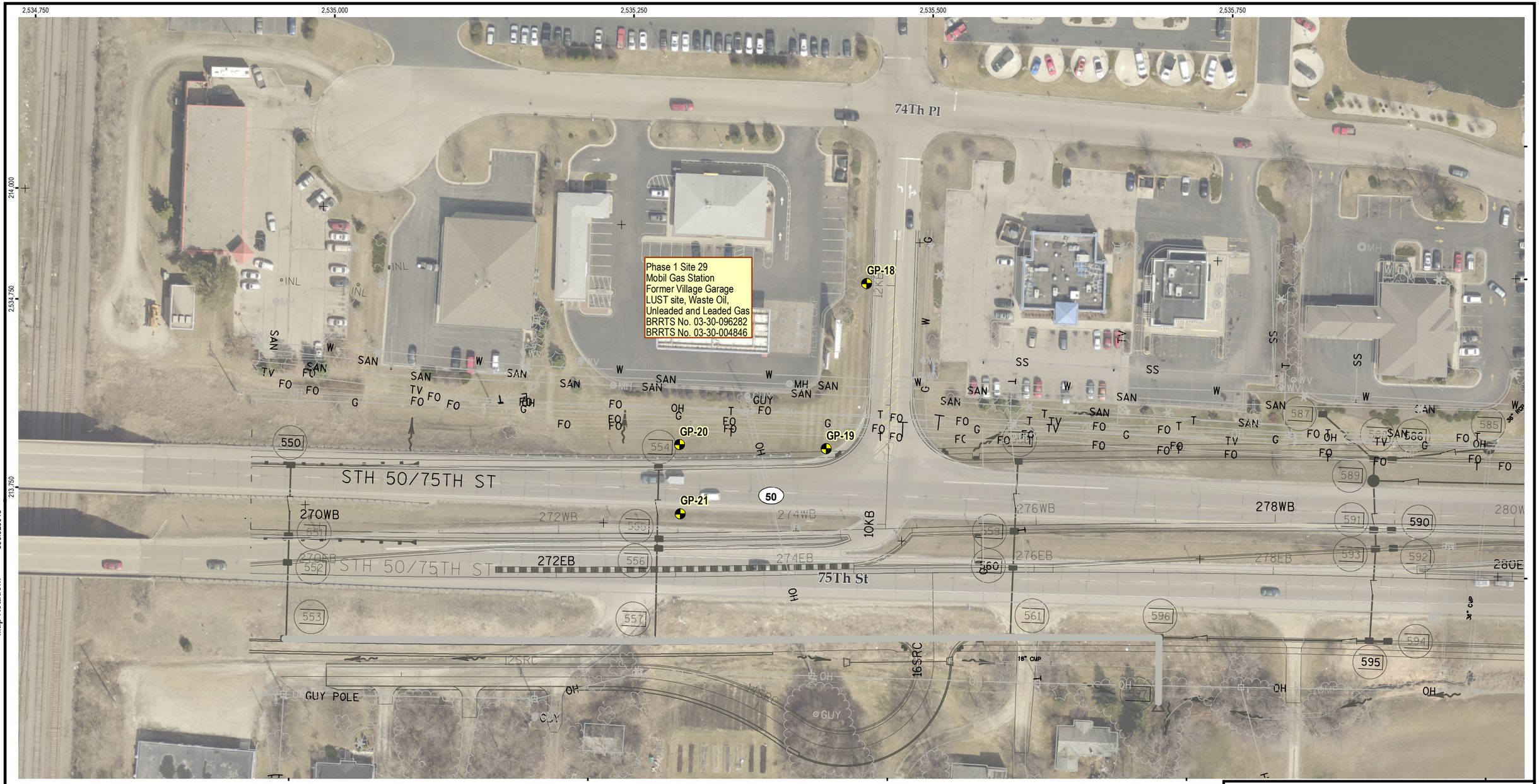

LEGEND

- SOIL BORING LOCATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:
WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:
SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		**FIGURE 4**
DATE:	OCTOBER 2017		

TRC
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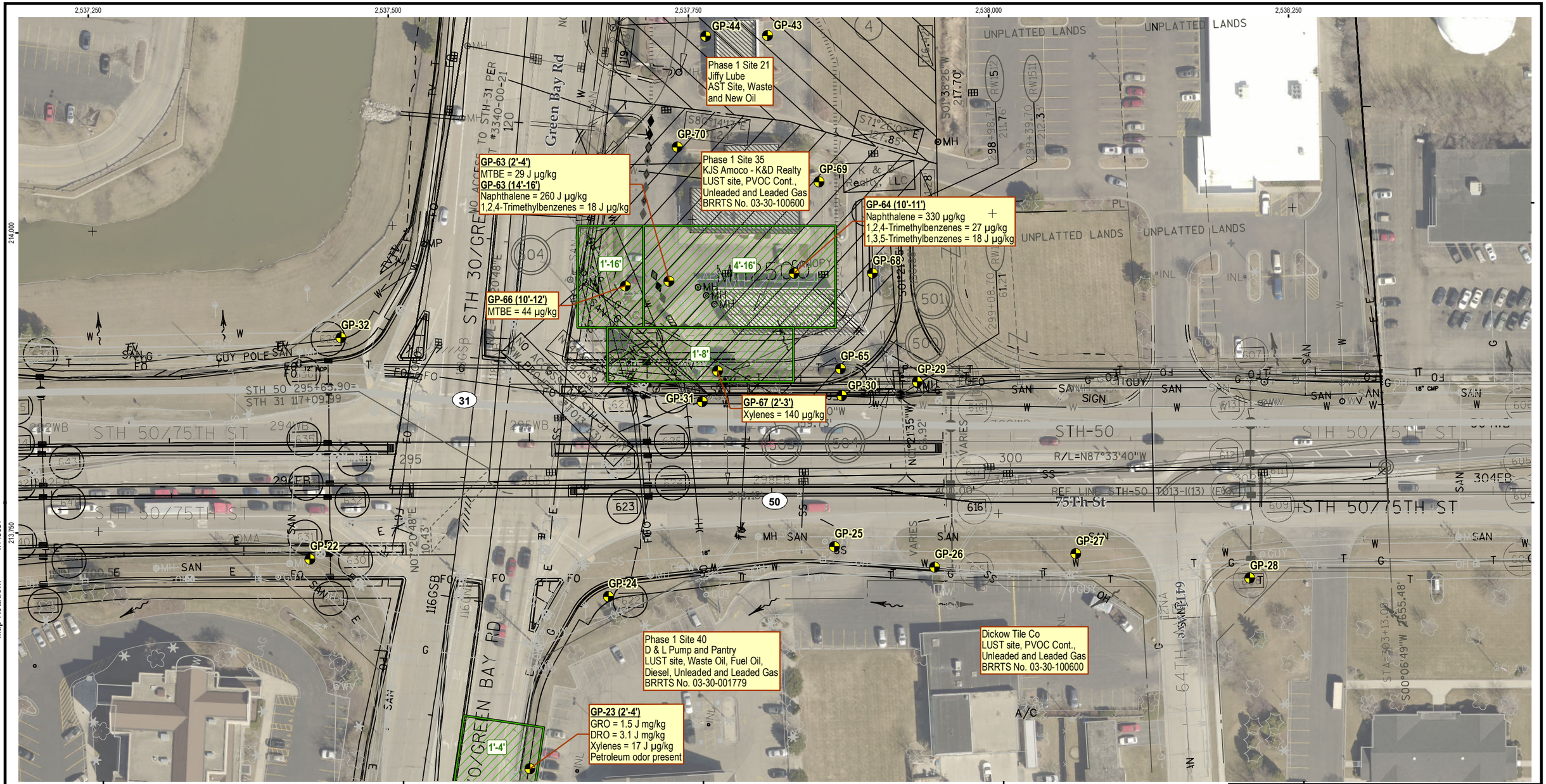
Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
Path: E:\WI_DOT\2017_278962\278962-002mb.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 356.529015

TRC - GIS



LEGEND

- SOIL BORING LOCATION
- BIOREMEDIATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

0 80 160 Feet

1 " = 80 '

1:960

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		
DATE:	OCTOBER 2017		

FIGURE 5

TRC
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FILE NO.: 278962-002mb.mxd

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 1.143081

Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
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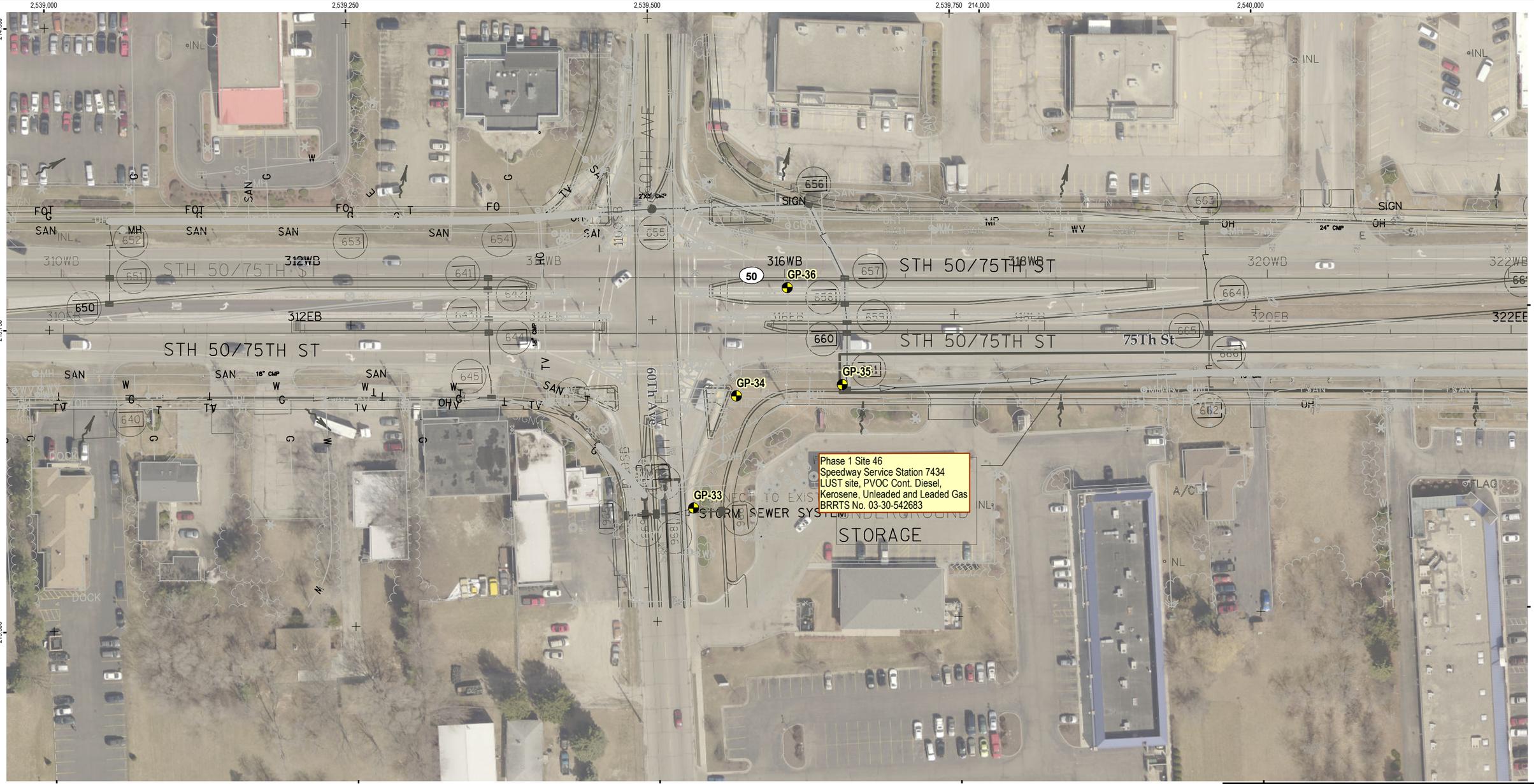
TRC - GIS



LEGEND

- SOIL BORING LOCATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

0 80 160 Feet

1 " = 80 '

1:960

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		FIGURE 6
DATE:	OCTOBER 2017		

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FILE NO.: 278962-002mb.mxd

TRC - GIS

Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0.968042

Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
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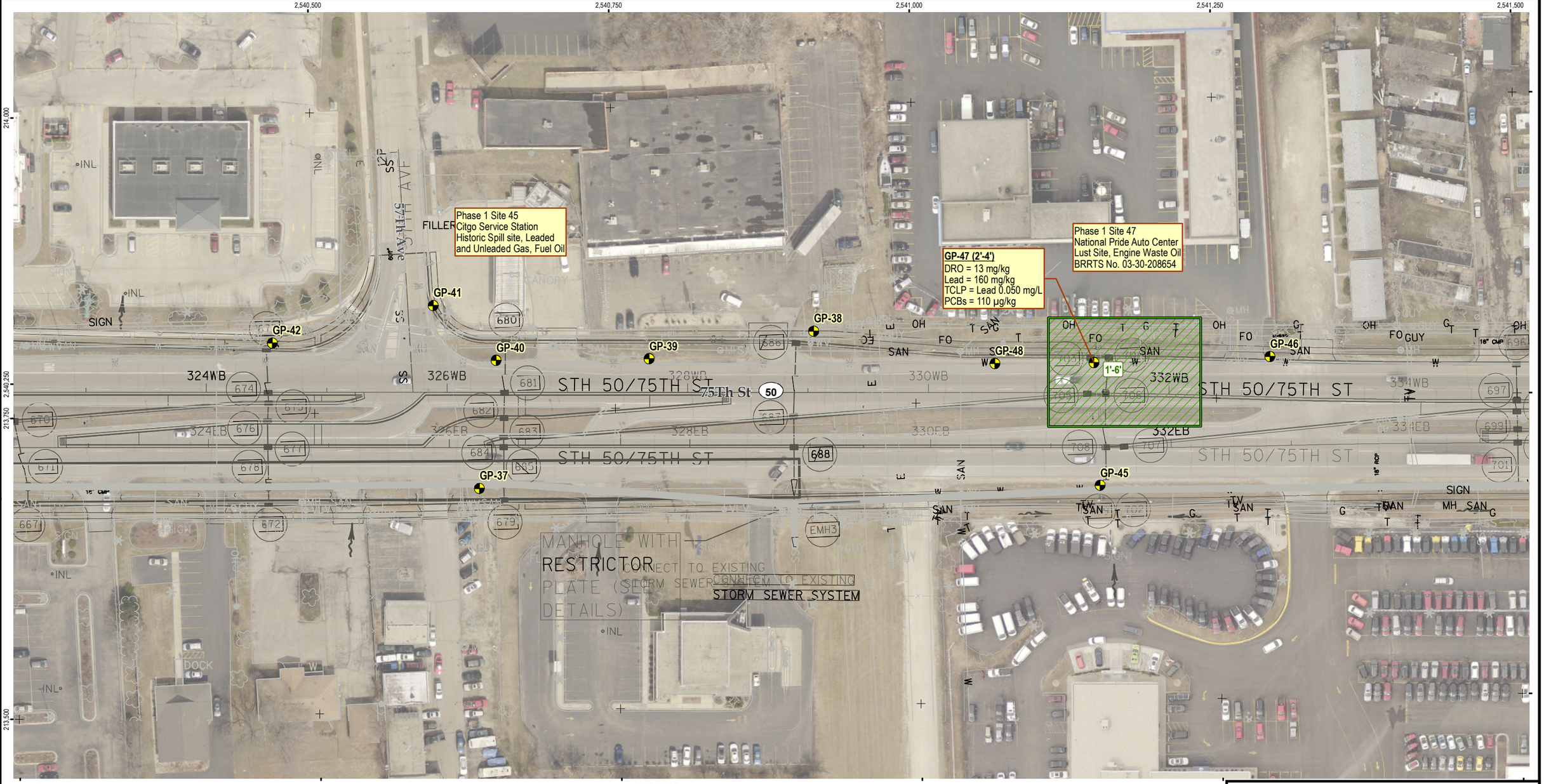

LEGEND

- SOIL BORING LOCATION
- BIOREMEDIATION

NOTES

1. BASE MAP IMAGERY FROMKENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

N

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:
WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:
SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		**FIGURE 7**
DATE:	OCTOBER 2017		

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FILE NO.: 278962-002mb.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0.984753
Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
Path: E:\WI_DOT\2017_278962\278962-002mb.mxd

LEGEND

- SOIL BORING LOCATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

0 80 160 Feet

1 " = 80 '
1:960

PROJECT:
WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:
SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		**FIGURE 8**
DATE:	OCTOBER 2017		

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FILE NO.: 278962-002mb.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 0.875657
Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
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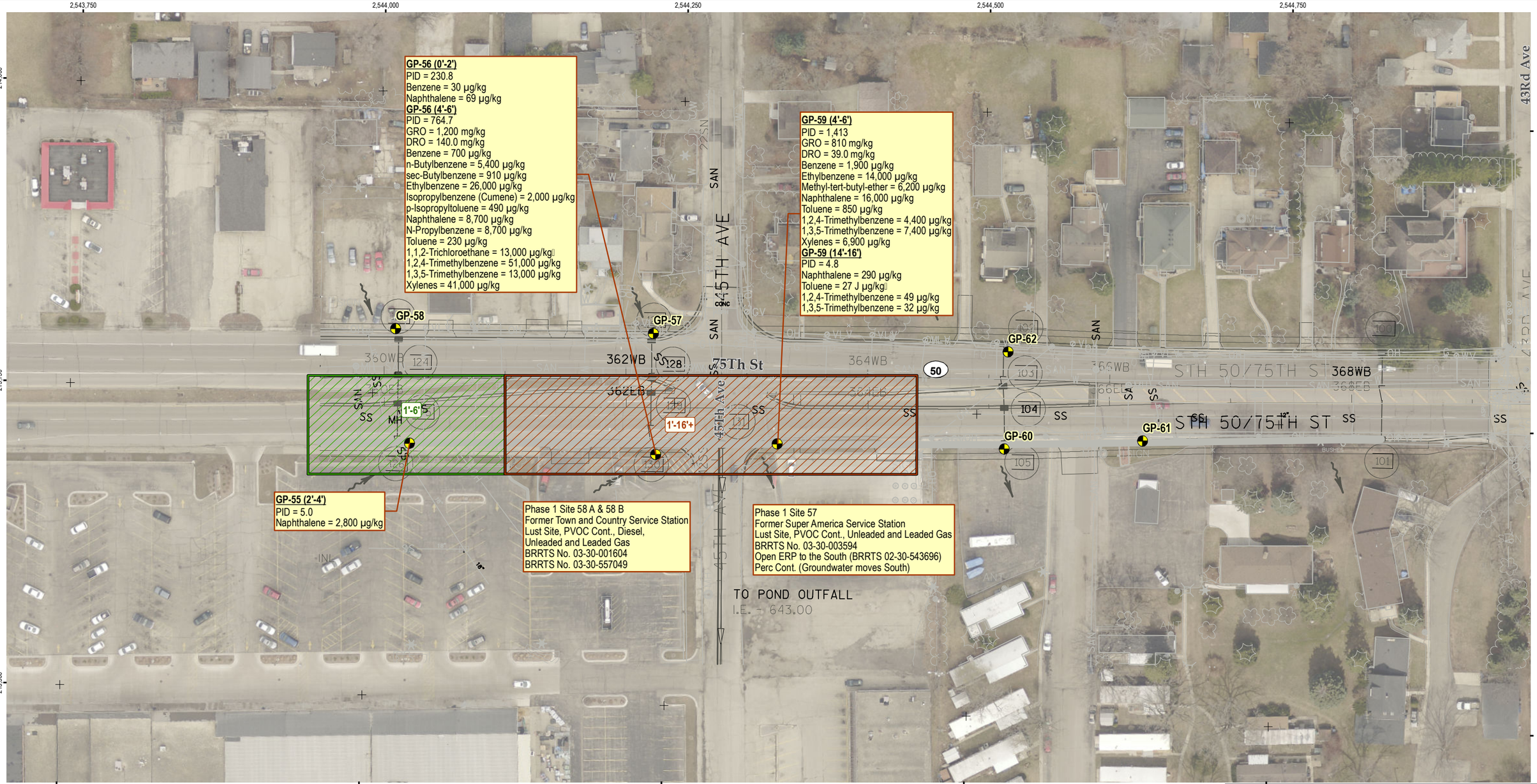

LEGEND

- SOIL BORING LOCATION
- BIOREMEDIATION
- SOLID WASTE

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN SOUTH (US SURVEY FEET).

N

0 80 160 Feet

1 " = 80 '

1:960

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		**FIGURE 9**
DATE:	OCTOBER 2017		

TRC

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FILE NO.: 278962-002mb.mxd

TRC - GIS
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 358
Plot Date: 10/17/2017, 15:27:20 PM by RSUEMNICHT -- LAYOUT: ANSI B (11"x17")
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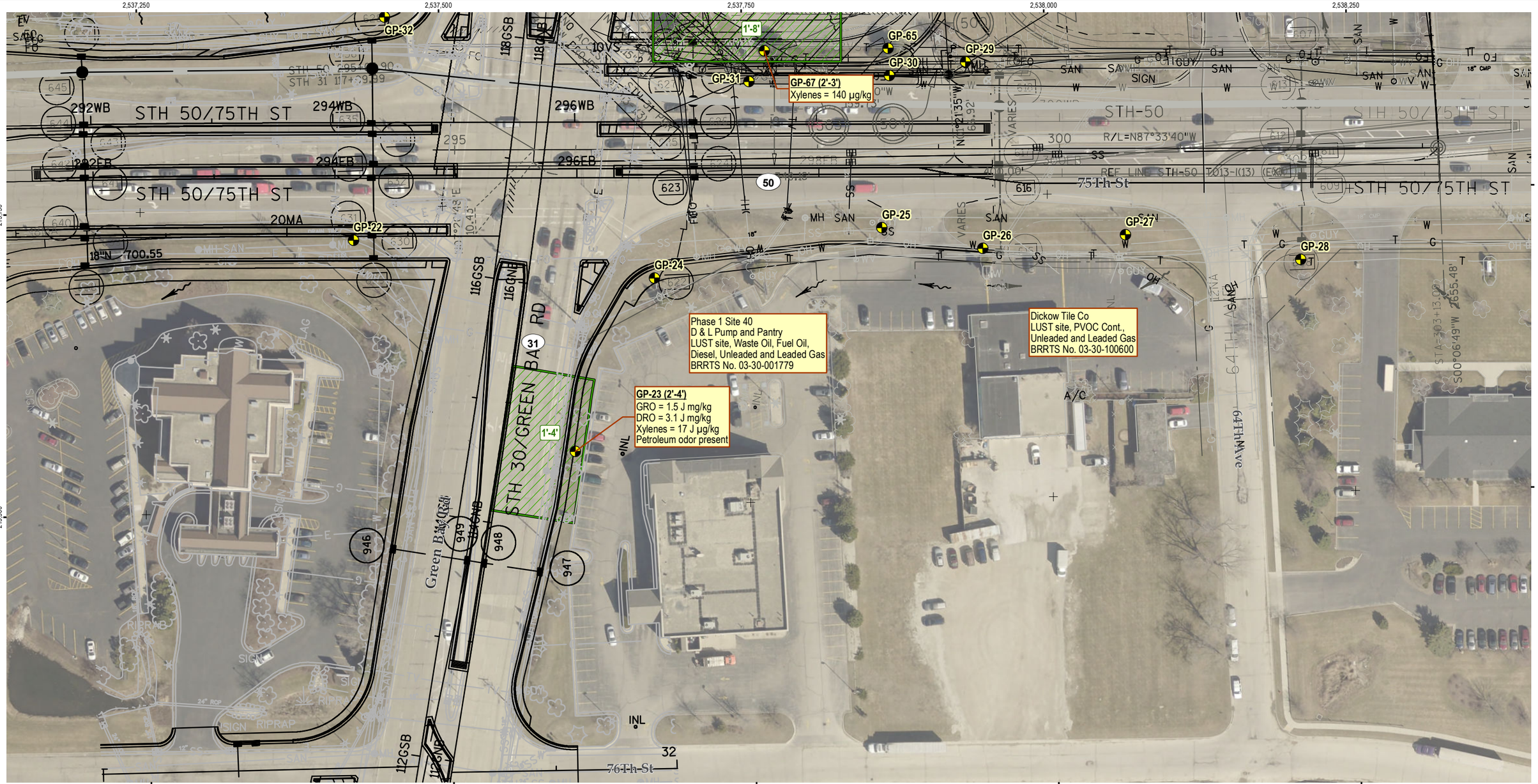

LEGEND

- SOIL BORING LOCATION
- BIOREMEDIATION

NOTES

1. BASE MAP IMAGERY FROM KENOSHA COUNTY LAND INFORMATION OFFICE, 2015.
2. CONSTRUCTION PLANS PROVIDED BY WisDOT, LOCATIONS ARE APPROXIMATE.
3. MAP PROJECTION AND GRID COORDINATES ARE IN NAD83 STATE PLANE WISCONSIN-SOUTH (US SURVEY FEET).

0 80 160 Feet

1 " = 80 '

1:960

PROJECT:

WISDOT ID# 1310-10-70/71
75TH STREET (STH 50), I-94 TO 43RD AVENUE
PLEASANT PRAIRIE, KENOSHA COUNTY, WISCONSIN

TITLE:

SOIL BORING LOCATION MAP

DRAWN BY:	R SUEMNICHT	PROJ NO.:	278962
CHECKED BY:	D HAAK		
APPROVED BY:	T STAPEL		**FIGURE 10**
DATE:	JANUARY 2019		

TRC
708 Heartland Trail, Suite 3000
Madison, WI 53717
Phone: 608.826.3600
www.trcsolutions.com

FILE NO.: 278962-002mb.mxd

Plot Date: 1/3/2019, 10:25:08 AM by AADAIR -- LAYOUT: ANSI B (11"x17")
Path: E:\WI_DOT\2017_278962\278962-002mb.mxd
Coordinate System: NAD 1983 StatePlane Wisconsin South FIPS 4803 Feet (Foot US)
Map Rotation: 1.143081

TRC - GIS

Appendix A
WDNR BRRTS Information

Wisconsin Department of Natural Resources

Environmental Cleanup & Brownfields Redevelopment

BRRTS on the Web

Click the Location Name below to view the Location Details page for this Activity. Other Activities, if present, may be viewed from that page.

< Basic Search

03-30-096282 PLEASANT PRAIRIE VIL - WASTE OIL

CLOSED LUST

Location Name (Click Location Name to View Location Details)			County	WDNR Region
OLD HWY DEPT GARAGE			KENOSHA	SOUTHEAST
Address			Municipality	
7304 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
SE 1/4 of the SE 1/4 of Sec 04, T01N, R22E		42.5674024	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8957686	230151460	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-8130-04		1995-03-15	1996-02-05	1997-10-15

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1995-03-15	1	Notification	
1995-03-15	2	RP Letter Sent	
1996-02-05	11	Activity Closed	

Impacts

Type	Comment
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Engine Waste Oil (250)	Petroleum		

Who

Role	Name/Address
Responsible Party	PLEASANT PRAIRIE VIL 8600 GREEN BAY RD PLEASANT PRAIRIE, WI 53158

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-004846 PLEASANT PRAIRIE VIL / OLD GARAGE

CLOSED LUST

Location Name (Click Location Name to View Location Details)			County	WDNR Region
OLD HWY DEPT GARAGE			KENOSHA	SOUTHEAST
Address			Municipality	
7304 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
SE 1/4 of the SE 1/4 of Sec 04, T01N, R22E		42.5675276	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8956397	230151460	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-8130-04		1995-03-15	1996-02-05	1997-10-15

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1995-03-15	1	Notification	
1995-03-15	2	RP Letter Sent	
1995-04-21	33	Tank Closure Environmental Site Assessment Rpt Received	TNK CLS/SA REPT RECV'D
1995-08-23	37	SI Report Received (w/out Fee)	SI REPORT RECV'D
1995-08-29	37	SI Report Received (w/out Fee)	SI REPORT RECV'D
1995-12-21	41	Remedial Action Report Received	
1996-02-05	11	Activity Closed	

Impacts

Type	Comment
Soil Contamination	SOIL CONTAMINATION

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded (1K)	Petroleum		

Who

Role	Name/Address
Responsible Party	PLEASANT PRAIRIE VIL 8600 GREEN BAY RD PLEASANT PRAIRIE, WI 53158

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-004372 TRUESDELL MINI MART

CLOSED LUST

Location Name (Click Location Name to View Location Details)			County	WDNR Region
TRUESDELL MINI MART			KENOSHA	SOUTHEAST
Address			Municipality	
8531 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
NW 1/4 of the NW 1/4 of Sec 09, T01N, R22E		42.5664209	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.9114443	230030020	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-7640-31		1994-07-20	1996-07-10	1996-12-16

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1994-07-20	1	Notification	
1994-07-21	2	RP Letter Sent	RP LETTER
1995-01-09	41	Remedial Action Report Received	RA REPORT RECV'D
1995-02-28	42	Remedial Action Report Approved	RA REPORT APPV'D
1996-05-16	43	Status Report Received	
1996-07-10	11	Activity Closed	

Impacts

Type	Comment
Soil Contamination	SOIL CONTAMINATION

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded (UNLEADED GAS)	Petroleum		

Who

Role	Name/Address
Responsible Party	TRUESDELL MINI MART 8531 75TH ST KENOSHA , WI 53142

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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02-30-553232 WI DOT STH 50 AND 88TH AVE

CLOSED ERP

Location Name (Click Location Name to View Location Details)				County	WDNR Region
WI DOT STH 50 AND 88TH AVE				KENOSHA	SOUTHEAST
Address				Municipality	
W SIDE OF INTERSECTION OF STH				PLEASANT PRAIRIE	
Public Land Survey System			Latitude	Google Maps	RR Sites Map
NE 1/4 of the NE 1/4 of Sec 08, T01N, R22E			42.5667152	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description			Longitude	Facility ID	Size (Acres)
			-87.914306	230197220	UNKNOWN
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2009-01-21	2009-02-09	2009-02-09

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2009-01-21	1	Notification	
2009-02-09	11	Activity Closed	
2009-02-09	83	Close-out Under NR708.09	
2009-02-09	2	RP Letter Sent	

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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< Basic Search

03-30-553244 WI DOT E MEDIAN AT STH 50 (75TH) & 88TH AVE

CLOSED LUST

Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here. **You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.**

Location Name (Click Location Name to View Location Details)				County	WDNR Region
WI DOT E MEDIAN AT STH 50 (75TH) & 88TH AVE				KENOSHA	SOUTHEAST
Address				Municipality	
STH 50 (75TH) & 88TH AVE				PLEASANT PRAIRIE	
Public Land Survey System			Latitude	Google Maps	RR Sites Map
NW 1/4 of the NW 1/4 of Sec 09, T01N, R22E			42.5667477	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description			Longitude	Facility ID	Size (Acres)
			-87.9137857	230197330	UNKNOWN
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2009-01-21	2013-05-03	2013-06-20

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	No	No	Yes

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2009-01-21	1	Notification	
2009-02-12	2	RP Letter Sent	
2011-09-07	130	DNR Regulatory Reminder Sent	Vapor Intrusion (VI) Assessment Notification Ltr Sent
Linked to Code 130:	0330553244_VI_Letter.pdf Click to Download or Open		
2012-02-23	200	Push Action Taken	WDNR SENT E-MAIL PUSH ACTION REQUESTING CLOSURE, GIS & CAP
2012-09-11	99	Miscellaneous	PUCH ACTION FOLLOW UP. CONSULTANT & WI DOT WORKING ON CLSOURE
2013-04-15	710	Database Fee Paid for Soil	REC'D CK# 836650 $200.00
2013-04-15	779	Closure Review Fee Received	REC'D CK# 836650 $750.00
2013-04-15	50	GIS Registry Site	*** AUTO POPULATED BY 710 ACTION ENTRY ***
2013-04-18	79	Closure Review Request Received	QAQC ENTRY
2013-05-03	11	Activity Closed	
2013-05-03	232	Continuing Obligation - Residual Soil Contamination	MANAGE RESIDUAL SOIL (PETROLEUM IMPACTS)
2013-05-03	56	Continuing Obligation(s) Required - GIS Registry Site	AUTO-POPULATED AS REPLACEMENT FOR CODE 50
Linked to Code 56:	0330553244_Registry_Packet.pdf Click to Download or Open		
2013-06-20	100	GIS Registry QAQC Completed	MN

Impacts	
Type	**Comment**
Contamination in Right of Way	-
Groundwater Contamination (Potential)	-
Soil Contamination	-

Substances			
Substance	**Type**	**Amount Released**	**Units**
Volatile Organic Compounds	VOC		
Gasoline - Unleaded and Leaded	Petroleum		

Who	
Role	**Name/Address**
Responsible Party	BOB PEARSON 4802 SHEBOYGAN AVE RM 451 MADISON, WI 53707

For Additional Information, Please Contact
CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-001779 D & L PUMP & PANTRY

CLOSED LUST

Location Name (Click Location Name to View Location Details)			County	WDNR Region
D & L PUMP & PANTRY			KENOSHA	SOUTHEAST
Address			Municipality	
6575 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
NE 1/4 of the NW 1/4 of Sec 10, T01N, R22E		42.5663558	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8869419	230043880	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3507-75		1991-08-08	1995-09-15	1995-09-15

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1991-08-08	1	Notification	
1991-08-08	2	RP Letter Sent	
1991-08-08	70	Emergency Response Start	
1991-09-10	99	Miscellaneous	PECFA FORM 4 PARTIAL (STEP 2)
1995-05-15	43	Status Report Received	QRTLY/MTHLY STATUS RPT
1995-06-01	30	Site Investigation Workplan Go Ahead (notice to proceed)	NOTICE TO PROCEED
1995-09-15	11	Activity Closed	

Impacts

Type	Comment
Groundwater Contamination	-
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded (X GASOLINE)	Petroleum		

Who

Role	Name/Address
Responsible Party	DEJNOS TRUCKING INC 5670 GREEN BAY RD KENOSHA, WI 53144

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-542683 SPEEDWAY/SUPERAMERICA LLC NO 7434

CLOSED LUST

Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here. **You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.**

Location Name (Click Location Name to View Location Details)			County	WDNR Region
SPEEDWAY 7434			KENOSHA	SOUTHEAST
Address			Municipality	
5959 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
NE 1/4 of the NE 1/4 of Sec 10, T01N, R22E		42.5661764	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.87973	230089310	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3630-59		2005-02-28	2009-05-15	2013-07-02

Comments

SITE WAS CLOSED UNDER THE JURISDICTION OF THE DEPT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) OR DEPT OF COMMERCE – SITE TRANSFERRED BACK TO DNR JURISDICTION IN 2013

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	No	No	Yes

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2005-02-28	1	Notification	
2005-03-09	2	RP Letter Sent	
2007-05-21	76	Activity Transferred to DSPS (formerly Commerce)	
2008-05-08	50	GIS Registry Site	*** AUTO POPULATED BY 700 OR 710 ACTION ENTRY ***
2008-05-08	710	Database Fee Paid for Soil	REC'D CK# 007692 $200.00
2009-01-06	84	Conditional Closure	*** Conditional Closure from Commerce Data Interchange ***
2009-04-29	37	SI Report Received (w/out Fee)	*** SITE INVESTIGATION DETERMINED BY DSPS TO BE COMPLETE - FROM DSPS DATA INTERCHANGE ***
2009-05-15	56	Continuing Obligation(s) Required - GIS Registry Site	AUTO-POPULATED AS REPLACEMENT FOR CODE 50
Linked to Code 56:		0330542683_Registry_Packet.pdf Click to Download or Open	
2009-05-15	232	Continuing Obligation - Residual Soil Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 710 ACTION ***
2009-05-15	11	Activity Closed	*** NR726 Closure from Commerce Data Interchange ***

2009-10-02	100	GIS Registry QAQC Completed	AB
2013-07-02	89	DSPS (formerly Commerce) Transferred Back to DNR	PECFA PROGRAM TRANSFER 2013-2015 STATE BUDGET

Impacts

Type	Comment
Groundwater Contamination	potential
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded	Petroleum		
Diesel Fuel	Petroleum		

Who

Role	Name/Address
Responsible Party	SPEEDWAY LLC 500 SPEEDWAY DR ENON, OH 45323

For Additional Information, Please Contact

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03-30-000835 BOURQUE PETROLEUM/LE MAY & SONS

CLOSED LUST

Location Name (Click Location Name to View Location Details)			County	WDNR Region
BOURQUE PETROLEUM/LE MAY & SONS			KENOSHA	SOUTHEAST
Address			Municipality	
5210 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
SW 1/4 of the SW 1/4 of Sec 02, T01N, R22E		42.5667159	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8702281	230121760	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3602-10		1990-06-27	1999-11-23	1999-11-23

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1990-06-27	1	Notification	
1990-06-28	2	RP Letter Sent	RP LETTER, UNK
1990-11-19	99	Miscellaneous	ACKNOW LETTER, REQUIRE 8 AREAS OF DEFICIENCY ADDRE
1990-12-14	2	RP Letter Sent	RP LETTER, UPGRADE TO HIGH
1991-01-11	3	Notice of Noncompliance (NON)	NON SENT
1991-03-29	39	Remedial Action Options Report Received (w/out Fee)	RA WORK PLAN RECV'D
1991-03-29	37	SI Report Received (w/out Fee)	SI REPORT RECV'D
1993-02-04	99	Miscellaneous	CASE STATUS REQUESTED BY 3/05/93
1993-03-03	99	Miscellaneous	SCHEDULE REQUESTED BY 3/26/93
1993-03-11	99	Miscellaneous	RP LETTER SENT
1993-05-03	35	Site Investigation Workplan Received (w/out Fee)	SI WORK PLAN RECV'D
1993-05-18	36	Site Investigation Workplan Approved	SI WORK PLAN APPV'D
1994-04-18	35	Site Investigation Workplan Received (w/out Fee)	SI WORK PLAN RECV'D
1994-04-29	36	Site Investigation Workplan Approved	SI WORK PLAN APPV'D
1996-08-09	43	Status Report Received	
1998-01-27	90	Start FIFO Review	AB.5/6/98 site specific cleanup goals -DENIED
1998-04-28	99	Miscellaneous	NOTIF TO TREAT & DISPOSE
1998-05-08	91	End FIFO Review	SITE SPEC RCLS DENIED
1999-04-25	41	Remedial Action Report Received	JP.
1999-05-30	79	Closure Review Request Received	JP.
1999-06-28	79	Closure Review Request Received	JP.7-22-99 TAKE TO CLOSURE 7-27-99 check sent to

			sturtevant
1999-07-27	84	Conditional Closure	JP. CODE 50/WELL ABAND. (14), LTR. TO CITY, LTR. TO RES. X ST. CLOSURE MTG.
1999-08-13	91	End FIFO Review	
1999-09-16	99	Miscellaneous	JP. RCV'D. DRAFT OF DEED DOC., LTR. TO MUNI., WELL ABAN. FORMS. GEO SAMP.
1999-11-22	92	O&M Report Received (w/out Fee)	JH.
1999-11-23	11	Activity Closed	JP. RCV'D. REQUESTED FINAL DOCUMENTATION

Impacts

Type	Comment
Groundwater Contamination	-
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded (LEADED GAS)	Petroleum		
Gasoline - Unleaded and Leaded (UNLEADED GAS)	Petroleum		

Who

Role	Name/Address
Responsible Party	MADRIGRANO ZIEVERS AIELLO & IA KENOSHA, WI 53142
Responsible Party	LE MAY & SONS AUTO SALES 5210 75TH ST KENOSHA, WI 53142

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-003594 SUPERAMERICA #4216

CLOSED LUST

Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here. **You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.**

Location Name (Click Location Name to View Location Details)				County	WDNR Region
SUPERAMERICA #4216 (FORMER)				KENOSHA	SOUTHEAST
Address				Municipality	
4417 75TH ST				KENOSHA	
Public Land Survey System			Latitude	Google Maps	RR Sites Map
NW 1/4 of the NE 1/4 of Sec 11, T01N, R22E			42.565904	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description			Longitude	Facility ID	Size (Acres)
			-87.862172	230094700	UNKNOWN
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-4211-17		1993-05-11	2005-08-02	2013-07-02

Comments

SITE WAS CLOSED UNDER THE JURISDICTION OF THE DEPT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) OR DEPT OF COMMERCE – SITE TRANSFERRED BACK TO DNR JURISDICTION IN 2013

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	Yes

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1993-05-11	1	Notification	
1993-10-07	2	RP Letter Sent	
1994-12-21	3	Notice of Noncompliance (NON)	NTC OF NON COMPLIENCE
1995-02-20	43	Status Report Received	QRTLY/MTHLY STATUS RPT
1996-06-12	37	SI Report Received (w/out Fee)	*** SITE INVESTIGATION DETERMINED BY DSPS TO BE COMPLETE - FROM DSPS DATA INTERCHANGE ***
1996-06-28	37	SI Report Received (w/out Fee)	
1996-10-29	43	Status Report Received	
1997-12-26	43	Status Report Received	
1999-03-12	79	Closure Review Request Received	DT.5/21/99
1999-07-22	80	Closure Not Approved	DT.
2000-02-01	76	Activity Transferred to DSPS	

		(formerly Commerce)	
2002-12-16	50	GIS Registry Site	Autopopulated from 700/710 entry
2002-12-16	710	Database Fee Paid for Soil	RECVD CK #368033 $200
2002-12-16	700	Database Fee Paid for Groundwater	RECVD CK #359146 $250
2003-08-14	84	Conditional Closure	*** Conditional Closure from Commerce Data Interchange ***
2005-08-02	236	Continuing Obligation - Residual GW Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 700 ACTION ***
2005-08-02	232	Continuing Obligation - Residual Soil Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 710 ACTION ***
2005-08-02	11	Activity Closed	*** NR726 Closure from Commerce Data Interchange ***
2005-08-02	56	Continuing Obligation(s) Required - GIS Registry Site	AUTO-POPULATED AS REPLACEMENT FOR CODE 50
Linked to Code 56:		0330003594_Registry_Packet.pdf Click to Download or Open	
2006-02-16	100	GIS Registry QAQC Completed	AB
2013-07-02	89	DSPS (formerly Commerce) Transferred Back to DNR	PECFA PROGRAM TRANSFER 2013-2015 STATE BUDGET

Impacts

Type	Comment
Groundwater Contamination	-
Soil Contamination	SOIL CONTAMINATION

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded (UNLEADED GAS)	Petroleum		

Who

Role	Name/Address
Responsible Party	SPEEDWAY LLC 500 SPEEDWAY DR ENON, OH 45323

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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02-30-543696 TOWN & COUNTRY LAUNDRYMAT INC

OPEN ERP

Location Name (Click Location Name to View Location Details)			County	WDNR Region
TOWN & COUNTRY LAUNDRYMAT			KENOSHA	SOUTHEAST
Address			Municipality	
7513 45TH AVE			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
NW 1/4 of the NE 1/4 of Sec 11, T01N, R22E		42.5654902	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8619833	230142990	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR			2005-08-04		2017-01-31

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	Yes	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2005-08-04	1	Notification	
2005-08-09	2	RP Letter Sent	
2006-01-19	99	Miscellaneous	REC'D LTR RE RP
2008-07-09	99	Miscellaneous	REC'D 4410-210 POTENTIAL DERF CLAIM NOT.
2008-08-20	110	Date Potential Claim Form Approved - DERF	
2011-09-07	130	DNR Regulatory Reminder Sent	Vapor Intrusion (VI) Assessment Notification Ltr Sent
2012-01-19	43	Status Report Received	CONTACTED BY CONSULTANT - STATUS OF SITE
2014-01-30	130	DNR Regulatory Reminder Sent	DERF FUNDING STATUS LTR
2016-03-21	99	Miscellaneous	REC'D NR 700 STATUS REPORT LTR
2017-01-31	195	Semi-Annual/PECFA Cost Reporting Requirement Met	Period: 7/1/2016 - 12/31/2016

Click 195 Action Name above to view the NR700 report

Impacts

Type	Comment
Groundwater Contamination (Potential)	-
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Perchloroethylene	VOC		

Who

Role	Name/Address

Responsible Party	MICHAEL SILVER 530 S 11TH ST MILWAUKEE, WI 53204
Project Manager	DOUG CIESLAK 141 NW BARSTOW ROOM 180 WAUKESHA, WI 53188

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03-30-001604 TOWN & COUNTRY MOBIL STATION

CLOSED LUST

Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here. **You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.**

Location Name (Click Location Name to View Location Details)			County	WDNR Region
TOWN & COUNTRY SERVICE			KENOSHA	SOUTHEAST
Address			Municipality	
4503 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
NW 1/4 of the NE 1/4 of Sec 11, T01N, R22E		42.5659491	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8626578	230097560	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3701-03		1991-06-07	2002-09-06	2013-07-02

Comments

SITE WAS CLOSED UNDER THE JURISDICTION OF THE DEPT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) OR DEPT OF COMMERCE – SITE TRANSFERRED BACK TO DNR JURISDICTION IN 2013

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	Yes	Yes

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1991-06-07	1	Notification	
1991-06-11	2	RP Letter Sent	RP LETTER, MEDIUM
1992-12-14	99	Miscellaneous	CHANGE RANKING FROM MEDIUM TO HIGH (SCORE 20)
1993-07-16	37	SI Report Received (w/out Fee)	SI REPORT RECV'D
1993-08-16	39	Remedial Action Options Report Received (w/out Fee)	RA WORK PLAN RECV'D
1993-08-30	40	Remedial Action Options Report Approved	RA WORK PLAN APPV'D
1994-03-28	39	Remedial Action Options Report Received (w/out Fee)	RA WORK PLAN RECV'D
1994-10-14	41	Remedial Action Report Received	RA REPORT RECV'D
1996-05-08	39	Remedial Action Options Report Received (w/out Fee)	
1996-08-15	43	Status Report Received	
1996-10-16	179	Closure Review Request	

		Received (no fee required)	
1996-12-30	80	Closure Not Approved	
1997-02-14	179	Closure Review Request Received (no fee required)	
1997-04-29	80	Closure Not Approved	
1997-06-03	80	Closure Not Approved	
1997-06-16	99	Miscellaneous	NOTES IN RESPONSE TO CLOSURE DENIAL
1997-09-11	43	Status Report Received	
1997-09-16	43	Status Report Received	
1997-11-21	179	Closure Review Request Received (no fee required)	
1998-02-09	80	Closure Not Approved	
1998-03-18	39	Remedial Action Options Report Received (w/out Fee)	
1999-05-03	79	Closure Review Request Received	JP.7-9-99 TAKE TO CLOSURE MTG ON7-27-99
1999-07-27	80	Closure Not Approved	JP. TAKE TO CLOSURE MTG. NEED ADDL. INFO. KEEP MONITORING
2000-02-01	76	Activity Transferred to DSPS (formerly Commerce)	PHYSICAL FILES TRANSFERRED/DENIED NO REFUND DUE
2002-01-04	700	Database Fee Paid for Groundwater	REC'D CK #12473 $250
2002-04-05	37	SI Report Received (w/out Fee)	*** SITE INVESTIGATION DETERMINED BY DSPS TO BE COMPLETE - FROM DSPS DATA INTERCHANGE ***
2002-05-17	84	Conditional Closure	*** Conditional Closure from Commerce Data Interchange ***
2002-09-06	236	Continuing Obligation - Residual GW Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 700 ACTION ***
2002-09-06	11	Activity Closed	*** NR726 Closure from Commerce Data Interchange ***
2002-09-06	50	GIS Registry Site	AB
2002-09-06	56	Continuing Obligation(s) Required - GIS Registry Site	AUTO-POPULATED AS REPLACEMENT FOR CODE 50
Linked to Code 56:		0330001604_Registry_Packet.pdf	Click to Download or Open
2003-03-14	100	GIS Registry QAQC Completed	AB
2011-03-23	33	Tank Closure Environmental Site Assessment Rpt Received	
2013-07-02	89	DSPS (formerly Commerce) Transferred Back to DNR	PECFA PROGRAM TRANSFER 2013-2015 STATE BUDGET

Impacts

Type	Comment
Co-contamination	-
Contamination in Right of Way	-
Groundwater Contamination	-
Off-Site Contamination	-
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded	Petroleum		
Gasoline - Unleaded and Leaded	Petroleum		
Diesel Fuel	Petroleum		

Who

Role	Name/Address
Responsible Party	TOWN & COUNTRY MOBIL 4503 75TH ST KENOSHA, WI 53142

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-557049 TOWN & COUNTRY SERVICE FORMER

CLOSED LUST

Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here. **You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.**

Location Name (Click Location Name to View Location Details)			County	WDNR Region
TOWN & COUNTRY SERVICE			KENOSHA	SOUTHEAST
Address			Municipality	
4503 75TH ST			KENOSHA	
Public Land Survey System		Latitude	Google Maps	RR Sites Map
NW 1/4 of the NE 1/4 of Sec 11, T01N, R22E		42.565968	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description		Longitude	Facility ID	Size (Acres)
		-87.8627059	230097560	UNKNOWN

Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3701-03		2011-05-06	2011-09-09	2014-12-02

Comments

SITE WAS CLOSED UNDER THE JURISDICTION OF THE DEPT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) OR DEPT OF COMMERCE – SITE TRANSFERRED BACK TO DNR JURISDICTION IN 2013

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
No	No	No	No	No	No	Yes

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
2011-05-06	1	Notification	
2011-05-16	76	Activity Transferred to DSPS (formerly Commerce)	AS PER CONSULTANT ASK FOR FILE TO BE TRANSFERRED
2011-05-16	99	Miscellaneous	CONSULTANT SELECTED
2011-05-16	2	RP Letter Sent	
2011-07-28	700	Database Fee Paid for Groundwater	REC'D CK# 56720
2011-07-28	710	Database Fee Paid for Soil	REC'D CK# 56720 $200.00
2011-07-28	50	GIS Registry Site	*** AUTO POPULATED BY 710 ACTION ENTRY ***
2011-09-09	11	Activity Closed	*** NR726 Closure from DSPS Data Interchange ***
2011-09-09	232	Continuing Obligation - Residual Soil Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 710 ACTION ***
2011-09-09	56	Continuing Obligation(s) Required - GIS Registry Site	
Linked to Code 56:	0330557049_Registry_Packet.pdf	Click to Download or Open	

2011-09-09	236	Continuing Obligation - Residual GW Contamination	*** AUTO POPULATED AT FINAL CLOSURE DUE TO 700 ACTION ***
2011-09-09	222	Continuing Obligation - Maintain Cap Over Contaminated Area	
2013-07-02	89	DSPS (formerly Commerce) Transferred Back to DNR	PECFA PROGRAM TRANSFER 2013-2015 STATE BUDGET
2014-12-02	100	GIS Registry QAQC Completed	RS

Impacts

Type	Comment
Contamination in Right of Way	-
Direct Contact	-
Groundwater Contamination	-
Off-Site Contamination	-
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded	Petroleum		

Who

Role	Name/Address
Responsible Party	CU MORTGAGE INVESTORS LLC 7801 S HOWELL SUITE 201 OAK CREEK, WI 53154

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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03-30-208654 NATIONAL PRIDE AUTO CENTER

CLOSED LUST

Location Name (Click Location Name to View Location Details)				County	WDNR Region
NATIONAL PRIDE AUTO CENTER				KENOSHA	SOUTHEAST
Address				Municipality	
5512 75TH ST				KENOSHA	
Public Land Survey System			Latitude	Google Maps	RR Sites Map
SW 1/4 of the SW 1/4 of Sec 02, T01N, R22E			42.5667022	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description			Longitude	Facility ID	Size (Acres)
			-87.8743381	230186220	UNKNOWN
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3602-12		1998-12-16	2001-07-02	2013-07-02

Comments

SITE WAS CLOSED UNDER THE JURISDICTION OF THE DEPT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) OR DEPT OF COMMERCE – SITE TRANSFERRED BACK TO DNR JURISDICTION IN 2013

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	No

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1998-12-16	1	Notification	
1999-01-05	2	RP Letter Sent	
1999-08-26	35	Site Investigation Workplan Received (w/out Fee)	SUBMITTED W/O FEE
2000-06-28	37	SI Report Received (w/out Fee)	*** SITE INVESTIGATION DETERMINED BY DSPS TO BE COMPLETE - FROM DSPS DATA INTERCHANGE ***
2000-10-30	76	Activity Transferred to DSPS (formerly Commerce)	
2001-01-02	84	Conditional Closure	*** Conditional Closure from Commerce Data Interchange ***
2001-07-02	11	Activity Closed	*** NR726 Closure from Commerce Data Interchange ***
2013-07-02	89	DSPS (formerly Commerce) Transferred Back to DNR	PECFA PROGRAM TRANSFER 2013-2015 STATE BUDGET

Impacts

Type	Comment
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Engine Waste Oil	Petroleum		

Who

Role	Name/Address
Responsible Party	NATIONAL PRIDE AUTO CENTER 5512 75TH ST KENOSHA, WI 53142

For Additional Information, Please Contact
CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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< Basic Search

03-30-100600 DICKOW CYZAK TILE CO

CLOSED LUST

Cleanup has been approved at this location but some contamination remains. Due to this remaining residual contamination, one or more continuing obligations are applicable to this location (e.g., an asphalt cap or other barrier covering the contamination). For information specific to the continuing obligations at this location, read the Closure Letter within the GIS Registry Packet in the Documents section below. For general information on managing continuing obligations and residual contamination click here. **You must contact DNR before constructing a well. Remaining contamination must be properly handled if disturbed.**

Location Name (Click Location Name to View Location Details)				County	WDNR Region
DICKOW CYZAK TILE CO				KENOSHA	SOUTHEAST
Address				Municipality	
6403 75TH ST				KENOSHA	
Public Land Survey System			Latitude	Google Maps	RR Sites Map
NE 1/4 of the NW 1/4 of Sec 10, T01N, R22E			42.5660626	CLICK TO VIEW	CLICK TO VIEW
Additional Location Description			Longitude	Facility ID	Size (Acres)
			-87.8859314	230168070	UNKNOWN
Jurisdiction	PECFA No.	EPA Cerclis ID	Start Date	End Date	Last Action
DNR RR	53142-3598-03		1996-05-02	2000-08-24	2013-07-02

Comments

SITE WAS CLOSED UNDER THE JURISDICTION OF THE DEPT OF SAFETY AND PROFESSIONAL SERVICES (DSPS) OR DEPT OF COMMERCE – SITE TRANSFERRED BACK TO DNR JURISDICTION IN 2013

Characteristics

PECFA Tracked?	EPA NPL Site?	Eligible for PECFA Funds?	Above Ground Storage Tank?	Drycleaner?	Co-Contamination?	On GIS Registry?
Yes	No	Yes	No	No	No	Yes

Actions

Place Cursor Over Action Code to View Description

Date	Code	Name	Comment
1996-05-02	1	Notification	
1996-05-14	2	RP Letter Sent	
1996-06-05	33	Tank Closure Environmental Site Assessment Rpt Received	
1997-11-26	37	SI Report Received (w/out Fee)	*** SITE INVESTIGATION DETERMINED BY DSPS TO BE COMPLETE - FROM DSPS DATA INTERCHANGE ***
1997-12-02	37	SI Report Received (w/out Fee)	
1998-01-27	99	Miscellaneous	COMPARISON OF 3 ALTERNATIVES
1998-04-20	39	Remedial Action Options Report Received (w/out Fee)	
1998-05-01	99	Miscellaneous	notif to treat or dispose
1998-06-02	99	Miscellaneous	VOLUME EXCEEDANCE LETTER TO DCOM
1998-10-26	41	Remedial Action Report Received	
1999-09-01	79	Closure Review Request Received	WE.

1999-11-30	80	Closure Not Approved	WE.
1999-12-15	99	Miscellaneous	WE. LTR MAILED IDENTIFYING CLOSURE OPTIONS
2000-03-24	730	Groundwater Use Restriction at Closure Added to GIS Registry	
2000-06-02	84	Conditional Closure	*** Conditional Closure from Commerce Data Interchange ***
2000-06-30	76	Activity Transferred to DSPS (formerly Commerce)	
2000-08-24	236	Continuing Obligation - Residual GW Contamination	
2000-08-24	11	Activity Closed	*** NR726 Closure from Commerce Data Interchange ***
2000-08-24	56	Continuing Obligation(s) Required - GIS Registry Site	AUTO-POPULATED AS REPLACEMENT FOR CODE 50
Linked to Code 56:		0330100600_Registry_Packet.pdf Click to Download or Open	
2000-08-24	50	GIS Registry Site	
2002-03-21	100	GIS Registry QAQC Completed	AB
2013-07-02	89	DSPS (formerly Commerce) Transferred Back to DNR	PECFA PROGRAM TRANSFER 2013-2015 STATE BUDGET

Impacts

Type	Comment
Groundwater Contamination	ABOVE PAL
Soil Contamination	-

Substances

Substance	Type	Amount Released	Units
Gasoline - Unleaded and Leaded	Petroleum		

Who

Role	Name/Address
Responsible Party	DICKOW CYZAK TILE CO 6403 75TH ST KENOSHA, WI 53142

For Additional Information, Please Contact

CHUE YEE YANG 414-263-8366 chueyee.yang@wisconsin.gov

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Appendix B
Soil Boring Logs and Borehole Abandonment Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-01

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 8, T 1 N, R 22 E
Lat 42 ° 33 ' 59.5 "
Long 87 ° 54 ' 53.1 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1	**TOPSOIL**, little fine-medium subangular gravel, nonplastic, very dark grayish brown (10YR 3/2), moist.				<1						
				POORLY GRADED SAND, mostly fine sand, brown (10YR 4/3), moist.	SP									
			2	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3) and some light grayish brown (10YR 6/2),very stiff-hard.				<1	2.25					Sample: GP-01 (2'-4')
			3						4.0					
GP	48 48		4					<1	4.25					
			5		CL				>4.5					
			6					<1	3.5					Sample: GP-01 (6'-8')
			7						>4.5					
			8	End of boring at 8 feet bgs.										

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

Signature	Firm	Tel:
	TRC	Fax:

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-02

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 33 ' 59.5 "
Long 87 ° 54 ' 49.5 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		1	**TOPSOIL**, few sand and gravel, very dark grayish brown (10YR 3/2), moist.				<1						
			2	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3),moist, top 3 inches poorly graded sand, light yellowish brown (10YR 6/4), hard.				<1	>4.5					Sample: GP-02 (2'-4')
			3						3.5					
GP	48 48		4					<1	>4.5					
			5		CL				>4.5					
			6					<1	3.75					Sample: GP-02 (6'-8')
			7						4.0					
			8	End of boring at 8 feet bgs.										

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

Signature	Firm	
	TRC	Tel: Fax:

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-03

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 33 ' 59.6 "
Long 87 ° 54 ' 43.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 46		0	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.				<1						
			1	**WELL GRADED SAND**, little silt, fine to medium subangular gravel, pale brown (10YR 6/3), moist.	SW									
			2	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3) and dark yellowish brown (10YR 4/6), mottling, moist, very stiff- hard.				<1	>4.5					Sample: GP-03 (2'-4')
			3						>4.5					
GP	48 48		4					<1	>4.5					
			5		CL				4.0					
			6					<1	3.25					Sample: GP-03 (6'-8')
			7						2.5					
			8	End of boring at 8 feet bgs.										

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

Signature	Firm	
	TRC	Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-04

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 33 ' 59.7 "
Long 87 ° 54 ' 41.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0	**TOPSOIL**, very dark gray brown (10YR 3/2), moist.										
			1	**WEL GRADED SAND**, little fine to medium subangular gravel. With little silt at 1.5 feet.	SW			<1						
			2						>4.5					Sample: GP-04 (2'-4')
			3	**SILTY CLAY**, trace sand and gravel, nonplastic, grayish brown (10YR 5/2) with some dark yellowish brown (10YR 4/6) and some black (10YR 2/1), moist, hard.				<1	>4.5					
GP	48 48		4	Transition to brown (10YR 5/3) at 4.25 feet.					>4.5					
			5		CL			<1	3.75					
			6						4.25					Sample: GP-04 (6'-8')
			7					<1	2.75					
			8	End of boring at 8 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-05

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 33 ' 59.7 "
Long 87 ° 54 ' 39.2 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 46		1	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.										
				WELL GRADED SAND, fine-coarse sand, some fine-medium sand, dark yellowish brown (10YR 4/4), moist.	SW			<1						
			2	**POORLY GRADED SAND**, brown (10YR 4/3), moist.	SP				>4.5					Sample: GP-05 (2'-4')
			3	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3) and gray (10YR 6/1), moist, hard.				<1	4.5					
GP	48 48		4						>4.5					
			5		CL			<1	>4.5					
			6						>4.5					Sample: GP-05 (6'-8')
			7					<1	4.5					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-06

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 33 ' 59.7 " Long 87 ° 54 ' 37.3 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		1	**WELL GRADED SAND**, fine-coarse sand, fine-medium subangular gravel, dark yellowish brown (10YR 4/4), moist.	SW			<1						
			2	**POORLY GRADED SAND**, few fine-medium gravel, dark yellowish brown (10YR 4/4), moist.	SP				3.25					Sample: GP-06 (2'-4')
			3	**SILTY CLAY**, trace sand and gravel, nonplastic, dark brown (10YR 3/3), moist, very stiff- hard.				<1	3.0					
GP	48 48		4	Brown (10YR 5/3) and gray (10YR 6/1), very stiff at 3 feet.					>4.5					
			5		CL			<1	>4.5					
			6						4.25					Sample: GP-06 (6'-8')
			7					<1	3.75					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-07

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 34 ' 0.3 " Long 87 ° 54 ' 41.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 46		0 1 2 3	**TOPSOIL**, very dark grayish brown (10YR 3/2). **WELL GRADED SAND**, fine-coarse sand with fine-medium subangular gravel, dark yellowish brown (10YR 4/6). **SILTY CLAY**, trace sand and gravel, nonplastic, dark yellowish brown (10YR 4/4) and black (10YR 2/1), moist, stiff. **WELL GRADED SAND**, fine-coarse sand with fine-medium subangular gravel, dark yellowish brown (10YR 4/6), moist.	SW CL SW			<1	1.5 2.0 <1					Sample: GP-07 (2'-4')
GP	48 48		4 5 6 7 8	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3), moist, stiff-hard. Black (10YR 2/1), hard at 4 feet. Brown (10YR 5/3), very stiff at 5.5 feet. End of boring at 8 feet bgs.	CL			<1 <1	>4.5 3.5 3.75 2.25 2.0					Sample: GP-07 (6'-8')

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

Signature | Firm TRC | Tel: Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-08

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 0.9 " Long 87 ° 54 ' 41.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 45		1	**WELL GRADED SAND**, fine-coarse sand, fine-medium gravel, dark yellowish brown (10YR 4/4) and(10YR 4/6), moist.	SW			<1						
			2	**POORLY GRADED SAND**, mostly fine sand, little silt, few fine gravel, dark yellowish brown (10YR 4/4).	SP				>4.5					Sample: GP-08 (2'-4')
			3	**SILTY CLAY**, trace sand and gravel, nonplastic, grayish brown (10YR 5/2), moist.				<1						
			4	Black (10YR 2/1), hard at 3.75 feet.										
GP	48 48								2.5					
			5	Very dark grayish brown (10YR 3/2),very stiff at 4.25 feet.	CL			<1	1.5					
			6	Gray (10YR 5/1), stiff at 5.5 feet.					1.75					Sample: GP-(6'-8')
			7	Brown (10YR 5/3), Gray (10YR 6/1).				<1	3.0					
			8	End of boring at 8 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-09

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 0.9 " Long 87 ° 54 ' 42.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		1	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.										
			2	**WELL GRADED SAND**, fine-coarse sand, fine-medium subangular gravel, brown (10YR 4/3), moist.	SW SP			<1	1.75					Sample: GP-09 (2'-4')
			3	**POORLY GRADED SAND**, little silt, few fine subrounded gravel, brown (10YR 4/3) moist.				<1	>4.5					
GP	48 48		4	**SILTY CLAY**, trace sand and gravel, nonplastic, very dark gray (10YR 3/1), moist, stiff- hard.					>4.5					
			5	Grayish brown (10YR 5/2) and gray (10YR 6/1), stiff at 4 feet.	CL			<1	4.0					
			6						3.25					Sample: GP-09 (6'-8')
			7					<1	3.0					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-10

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 9, T 1 N, R 22 E
Lat 42 ° 34 ' 0.3 " Long 87 ° 54 ' 49.4 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		0	**ASPHALT**, black (10YR 2/1), moist.										
				CONCRETE, white (10YR 8/1), moist.										
			1	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3), moist, hard.				<1	>4.5					
			2						>4.5					Sample: GP-10 (2'-4')
			3					<1						
GP	48 48		4						>4.5					
			5					<1	4.0					
			6		CL				>4.5					
			7					<1	4.25					
GP	48 48		8						3.5					
			9					<1	3.0					
			10						2.75					
			11					<1	>4.5					
			12											

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Signature	Firm	Tel:
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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-10 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	24 24		13	Grayish brown (10YR 5/2), stiff at 12.25 feet.	CL			<1	2.0 1.5					Sample: GP-10 (12'-14')
			14	End of boring at 14 feet bgs due to refusal.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 8, T 1 N, R 22 E
Lat 42 ° 33 ' 59.9 " Long 87 ° 54 ' 52.2 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0	**CONCRETE**, white (10YR 8/1).										
			1	**WELL GRADED SAND**, few fine-medium subrounded gravel, little clay, little silt, gray (10YR 5/1).	SW			<1						Sample: GP-11 (2'-4')
			2											
			3					<1	1.75					
GP	48 48		4	**SILTY CLAY**, trace sand and gravel, nonplastic, black (10YR 2/1), gray (10YR 5/1), moist, stiff.					>4.5					
			5	Grayish brown (10YR 5/2) and dark yellowish brown (10YR 4/6), hard at 4 feet.				<1	>4.5					
			6						3.5					
			7					<1	2.5					
GP	48 48		8	Transitions to brown (10YR 5/3) at 8 feet.	CL				3.75					
			9					<1	>4.5					
			10						3.0					
			11					<1	3.25					
			12											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-11 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	36 36		13	Gray (10YR 5/1) at 12.25 feet.	CL			<1	3.25					
			14					<1	2.5					Sample: GP-11 (14'-15')
			15	End of boring at 15 feet bgs due to refusal.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 5, T 1 N, R 22 E
Lat 42 ° 34 ' 1.0 " Long 87 ° 54 ' 51.9 "
Local Grid Location Feet ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 40		0	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.										
			1	**SILTY CLAY**, little fine-coarse sand, fine subrounded gravel, nonplastic, dark yellowish brown (10YR 4/4), moist, very stiff.				<1	2.75					
			2											Sample: GP-12 (2'-4')
			3	Trace sand and gravel, very dark grayish brown (10YR 3/2) at 2.5 feet. Little fine to coarse sand, brown (10YR 4/3) at 3 feet.				<1	1.75					
GP	48 32		4	Trace sand, black (10YR 2/1) at 3.5 feet. Brown (10YR 5/3) and gray (10YR 6/1), stiff at 4 feet.					1.75					
			5					<1	1.5					
			6		CL				0.5					
			7					<1						
GP	48 48		8						3.75					
			9					<1	3.75					
			10						2.75					
			11	Grayish brown (10YR 5/2), hard at 22 feet.				<1	4.0					
			12											

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

Signature	Firm	Tel:
	TRC	Fax:

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State of Wisconsin
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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-12 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48		13					<1	3.0 >4.5					
			14		CL				>4.5					Sample: GP-12 (14'-16)
			15					<1	2.25					
			16	End of boring at 16 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 5, T 1 N, R 22 E
Lat 42 ° 34 ' 0.8 "
Long 87 ° 54 ' 53.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 24		1	**TOPSOIL**, black (10YR 2/1), moist.										
			2	**SANDY GRAVEL**, fine-coarse sand and subangular gravel, black (10YR 2/1), moist.	GM			<1						
			3	**CLAYEY SAND**, mostly fine-coarse sand, some clay, little silt, dark yellowish brown (10YR 4/4).										Sample: GP-13 (2'-4')
			4	Few clay, dark yellowish brown (10YR 4/6) at 3 feet.				<1						
GP	48 24		5	Little clay at 4.5 feet.	SC			<1						
			6											Sample: GP-13 (6'-8')
			7					<1						
			8	End of boring at 8 feet bgs.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-14

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/24/2017	7/24/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 5, T 1 N, R 22 E
Lat 42 ° 34 ' 0.7 "
Long 87 ° 54 ' 54.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 32		1	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.										
			2	**CLAYEY SAND**, mostly fine-coarse sand, some clay, little silt, dark yellowish brown (10YR 4/4), moist.	SC			<1	>4.5					Sample: GP-14 (2'-4')
			3	**SILTY CLAY**, trace sand and gravel, nonplastic, brown (10YR 5/3), some red and black (10YR 2/1), hard.	CL			<1						
			4	End of boring at 4 feet bgs.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 5, T 1 N, R 22 E
Lat 42 ° 34 ' 2.4 " Long 87 ° 54 ' 51.7 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**TOPSOIL**, black (10YR 2/1), moist, grass.										
			1	**WELL GRADED GRAVEL**, fine-coarse sand, subangular gravel, dark gray (10YR 4/1), moist.	GW			<1	>4.5					
			2	**SILTY CLAY**, trace sand, low plasticity, dark yellowish brown (10YR 3/4), moist, hard.					2.5					Sample: GP-15 (2'-4')
			3					<1	1.75					
GP	48 38		4	Gray (10YR 5/1) and brownish yellow (10YR 6/8), stiff at 4.25 feet.	CL				2.5					
			5					<1	2.75					
			6						4.25					Sample: GP-15 (6'-8')
			7	Cobble at 6.75 feet				<1						
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-16

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 5, T 1 N, R 22 E
Lat 42 ° 34 ' 0.7 "
Long 87 ° 54 ' 55.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 42		1	**TOPSOIL**, black (10YR 2/1). **SANDY GRAVEL**, coarse subangular gravel, fine-coarse sand, little clay, brown (10YR 4/3), moist.	GM			<1						
			2	**SILTY CLAY**, few sand, nonplastic, gray (10YR 5/1) and light yellowish brown (19YR 6/4), moist, hard.					>4.5					Sample: GP-16 (2'-4')
			3					<1						
GP	48 48		4						4.0					
			5		CL			<1	3.5					
			6						2.0					Sample: GP-16 (6'-8')
			7					<1						
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-17

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 0.8 "
Long 87 ° 54 ' 49.1 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1	**TOPSOIL**, black (10YR 2/1), moist. **SANDY GRAVEL**, mostly rounded gravel, fine-coarse sand, little clay, dark brown (10YR 3/3), moist.	GM			<1	0.5					
			2	**SILTY CLAY**, low plasticity, very dark brown (10YR 2/2), moist, soft. Sand lens, 1 inch thick, brownish yellow (10YR 6/8), at 1.75 feet.					1.25					Sample: GP-17 (2'-4')
			3	Color transitions to dark yellowish brown (10YR 4/6) and dark gray (10YR 4/1) at 2 feet.				<1	3.75					
GP	48 48		4	Color transitions to gray (10YR 5/3), very stiff at 4 feet.	CL				3.5					
			5					<1	>4.5					
			6						2.5					Sample: GP-17 (6'-8')
			7	color transitions to dark gray (10YR 4/1), hard at 6.5 feet.				<1						
			8	End of boring at 8 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-18

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 2.7 "
Long 87 ° 53 ' 43.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**TOPSOIL**, little fine subrounded gravel, very dark grayish brown (10YR 3/2), moist.										
			1	**SILTY CLAY**, few fine-coarse sand, trace fine gravel , nonplastic, brown (10YR 5/3), moist, hard.	CL			<1	4.0					
			2						>4.5					Sample: GP-18 (2'-4')
			3					<1	>4.5					
			4	End of boring at 4 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-19

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 1.3 "
Long 87 ° 53 ' 43.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 40		1	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.				<1						
			2	**SILTY CLAY**, few sand and fine gravel, nonplastic, very dark grayish brown (10YR 3/2), moist, stiff.	CL				1.25					Sample: GP-19 (2'-4')
			3					<1	1.75					
			4	End of boring at 4 feet bgs.										

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-20

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 1.3 "
Long 87 ° 53 ' 45.0 "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 42		0	**TOPSOIL**, very dark brown (10YR 2/2), moist.										
			1	**SILTY CLAY**, trace fine subrounded gravel, low plasticity, very dark grayish brown (10YR 3/2), moist, very stiff.	CL			<1	3.0					
			2						1.0					Sample: GP-20 (2'-4')
			3	Sand lens, 1 inch thick, dark brown (10YR 3/3) moist at 2.4 feet.										
				SANDY CLAY, medium- fine subrounded gravel, fine subangular- subrounded sand, very dark grayish brown (10YR 3/2), moist, medium.	CL			<1	1.5					
GP	48 48		4						>4.5					
			5	**SILTY CLAY**, trace- few subrounded gravel, low plasticity, dark grayish brown (10YR 4/2), moist, hard.				<1	2.0					
			6	Color change to dark gray (10YR 4/1), stiff at 5.5 feet.					3.25					
			7	Color change to black (10YR 2/2), brownish yellow (10YR 6/6) and gray (10YR 5/1), very stiff at 7 feet.				<1						
GP	48 48		8		CL				3.0					
			9					>1	2.0					
			10						3.5					Sample: GP-20 (10'-12')
			11					<1						
			12											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-20 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				End of boring at 12 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-21

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 4, T 1 N, R 22 E
Lat 42 ° 34 ' 0.7 " Long 87 ° 53 ' 45.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 45		0	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1						
			1	**POORLY GRADED SAND**, fine sand, little med-coarse sand, fine-coarse gravel, very pale brown (10YR 7/3)	SP				>4.5					
			2	**SILTY CLAY**, trace sand, low plasticity, black (10YR 2/1), moist, hard.				<1	>4.5					Sample: GP-21 (2'-4')
			3	Color change to dark gray (10YR 4/1), hard at 2.5 feet.										
			4	Two inches of old asphalt at 3.5 feet.										
GP	48 48							<1	3.25					
			5						4.0					
			6	Color change to gray (10YR 5/1) and yellowish brown (10YR 5.6) at 5.5 feet.	CL			<1	2.25					
			7						1.25					
GP	36 36		8	Transition to gray (10YR 5/1), stiff at 8 feet.				<1	2.25					
			9						1.0					
			10					<1						Sample: GP-21 (10'-11')
			11	End of boring at 11 feet bgs due to refusal.										

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

Signature	Firm	
	TRC	Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-22

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.8 "
Long 87 ° 53 ' 16.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 44		1	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.				<1	2.0					
			2	**SILTY CLAY**, trace fine subrunded gravel, low plasticity, very dark gray (10YR 3/1), moist, stiff.					1.75					Sample: GP-22 (2'-4')
			3					<1	4.0					
				Color transitions to gray (10YR 5/1) and light yellowish brown (10YR 6/4), hard at 3.25 feet.										
GP	48 48		4						4.0					
			5		CL			<1	4.0					
			6						4.25					Sample: GP-22 (6'-8')
			7					<1	3.5					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-23

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 58.0 "
Long 87 ° 53 ' 14.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.										
			2	**WELL GRADED GRAVEL** fine- medium saubangular- subrounded gravel, some fine-coarse sand, brown (10YR 5/3), moist.	GW			<1						Sample: GP-23 (2'-4')
			3	**SANDY CLAY**, few medium subangular gravel, nonplastic, dark grayish brown (10YR 4/2), moist.	CL									
			4	**SILTY CLAY**, trace fine subrounded gravel, very dark brown (10YR 2/2), slight petroleum odor, hard.	CL			<1	>4.5					
				End of boring at 4 feet bgs.										

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SOIL BORING LOG INFORMATION
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-24

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.4 "
Long 87 ° 53 ' 13.5 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**TOPSOIL**, very dark brown (10YR 2/2), moist.										
			1	**SILTY CLAY**, low plasticity, dark yellowish brown (10YR 4/6) and brown (10YR 5/3), moist, very stiff.				<1	2.5					
			2	Trace gravel, stiff at 2.25 feet.					1.5					Sample: GP-24 (2'-4')
			3					<1	1.5					
GP	48 48		4		CL				3.75					
			5					<1	4.5					
			6						3.75					Sample: GP-24 (6'-8')
			7					<1	4.5					
			8	End of boring at 8 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-25

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NW 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.7 "
Long 87 ° 53 ' 10.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0 1 2 3 4	**TOPSOIL**, very dark brown (10YR 2/2), moist.										
				SILTY CLAY, few sand, trace fine subrounded gravel, low plasticity, dark yellowish brown (10YR 3/6), moist.	CL			<1	1.25					
									0.5					Sample: GP-25 (2'-4')
				SANDY CLAY, few-trace subrounded gracel, very dark grayish brown (10YR 3/2), soft.	CL			<1	0.5					
				Color change to black (10YR 2/1) for 3 inches at 3.5 feet.										
				End of boring at 4 feet bgs.										

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SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-26

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.5 "
Long 87 ° 53 ' 9.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 34		1	**TOPSOIL**, dark brown (10YR 3/3), moist.										
			2	**WELL GRADED SANDY GRAVEL**, mostly subanfular-subrounded medium gravel, fine- medium sand, trace clay, yellowish brown (10YR 5/4), moist.	GW			<1	1.75					Sample: GP-26 (2'-4')
			3	**SITY CLAY**, trace sand, low plasticity, black (10YR 2/1), moist, stiff. 1 inch sand lens at 3 feet.				<1						
GP	48 48		4	Color change to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 4 feet.					1.25					
			5		CL			<1	2.0					
			6						3.5					Sample: GP-26 (6'-8')
			7						>4.5					
			8	End of boring at 8 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-27

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.6 "
Long 87 ° 53 ' 8.2 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0 1 2 3 4	**TOPSOIL**, very dark brown (10YR 2/2), moist. **SILTY CLAY**, few medium-coarse subrounded gravel, few fine sand, low plasticity, dark yellowish brown (10 YR 4/4), moist, hard. **FILL SILTY SAND**, brownish yellow. End of boring at 4 feet bgs.	CL			<1 <1	>4.5					Sample: GP-27 (2'-4')

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Signature | Firm TRC | Tel: Fax:

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-28

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.3 "
Long 87 ° 53 ' 6.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.										
			2	**SILTY CLAY**, trace fine sand, low plasticity, gray (10YR 5/1), brownish yellow (10YR 6/6), moist, stiff-hard.				<1	1.25					
									2.0					Sample: GP-28 (2'-4')
			3					<1	1.5					
GP	48		4						2.5					
	48				CL									
			5					<1	4.25					
			6						4.25					Sample: GP-28 (6'-8')
			7					<1	3.75					
			8	End of boring at 8 feet bgs.										

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-29

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SE 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 1.0 "
Long 87 ° 53 ' 9.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 44		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1	3.5					
			2	**SILTY CLAY**, few fine subangular-subrounded gravel, trace fine sand, gray (10YR 5/1), brownish yellow (10YR 6/8), moist, very stiff.					>4.5					Sample: GP-29 (2'-4')
			3					<1	>4.5					
GP	48 36		4		CL				>4.5					
			5					<1	>4.5					
			6						>4.5					Sample: GP-29 (6'-8')
			7	Silty sand lens, yellow (10YR 7/8), moist, at 7 feet.				<1						
			8	**FILL SAND**, yellow (10YR 7/8), moist.										
				End of boring at 8 feet bgs.										

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Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-30

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 1.0 "
Long 87 ° 53 ' 10.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1	4.25					
			2	**SILTY SANDY CLAY**, trace fine sand, dark yellowish brown (10YR 4/4), moist, hard. Color change to light gray (10YR 7/2), very stiff at 2.25 feet.	CL				3.5					Sample: GP-30 (2'-4')
			3	**CLAYEY SILT**, light yellowish brown (10YR 6/4), hard.	ML				>4.5					
			4	End of boring at 4 feet bgs.										

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-31

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 1.0 "
Long 87 ° 53 ' 12.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1	**TOPSOIL**, very dark brown (10YR 2/2), moist. With little gravel for 6 inches, moist at .5 feet.				<1						
			2	**WELL GRADED GRAVEL**, fine- coarse subangular-subrounded gravel, white (10YR 8/1).	GW									Sample: GP-31 (2'-4')
			3	**SILTY CLAY**, few fine sand, low plasticity, yellowish brown (10YR 5/4), moist, very stiff.				<1	3.25					
GP	48 36		4	Few-no sand, color change to yellowish brown (10YR 5/4) and gray (10YR 6/1) at 4 feet.					3.25					
			5		CL			<1	4.0					
			6						3.75					Sample: GP-31 (6'-8')
			7					<1	3.25					
			8	End of boring at 8 feet bgs.										

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Signature | Firm TRC | Tel: Fax:

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Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-32

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/25/2017	7/25/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 1.6 "
Long 87 ° 53 ' 16.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 38		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1	1.5					
			2	**SILTY CLAY**, little fine- medium subrounded gravel, very dark grayish brown (10YR 3/2), moist, medium.	CL									Sample: GP-32 (2'-4')
			3	Cobbles with trace slag and glass for 3 inches at 3 feet.	SW SM			<1						
GP	48 48		4	**GRAVELLY SAND**, medium- coarse subangular- subrounded gravel, white (10YR 8/1), dry.					3.0					
			5	**SILTY SAND**, very dark grayish brown (10YR 3/2).				<1	>4.5					
			6	**SILTY CLAY**, trace sand, trace medium-fine subangular-subrounded gravel, gray (10YR 6/1) and brownish yellow (10YR 6/8)	CL				3.25					Sample: GP-32 (6'-8')
			7					<1	>4.5					
			8	End of boring at 8 feet bgs.										

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

Signature	Firm	
	TRC	Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-33

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 58.0 "
Long 87 ° 52 ' 48.7 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 40		1	**SILTY CLAY**, trace sand, trace coarse subangurlar-subrounded gravel, low plasticity, very dark brown (10YR 2/2), moist, hard.				<1	>4.5					
			2	Lacks gravel, low plasticity, color changes to dark yellowish brown (10YR 4/6), very stiff, moist.					2.75					Sample: GP-33 (2'-4')
			3					<1	3.0					
GP	48 48		4	Color changes to dark yellowish brown (10YR 4/6) and gray (10YR 5/1) at 3.5 feet.	CL				>4.5					
			5					<1	4.25					
			6						>4.5					Sample: GP-33 (6'-8')
			7					<1	4.0					
			8	End of boring at 8 feet bgs.										

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Signature | Firm TRC | Tel: Fax:

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SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-34

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 58.9 "
Long 87 ° 52 ' 48.1 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1						
			1	**GRAVELLY SANDY CLAY**, little coarse subrounded gravel, few sand, mostly clay, dark brown (10YR 3/3), moist.	CL									
			2					<1						Sample: GP-34 (2'-4')
			3	**SILTY CLAY**, trace fine subrounded gravel, nonplastic, dark yellowish brown (10YR 4/4), moist, very stiff.	CL				3.5					
GP	48 24		4	**SILTY SAND**, very fine, dark yellowish brown (10YR 4/6), moist.				<1						
			5											
			6		SM			<1						
			7											
GP	39 24		8	**SILTY CLAY**, trace fine-medium sand, low plasticity, gray (10YR 6/1) and light yellowish brown (10YR 6/4), moist, hard				<1	4.0					
			9						4.0					
			10		CL			<1	>4.5					Sample: GP-34 (10'-11')
			11											
				End of boring at 11.3 feet bgs due to refusal.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-35

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.0 "
Long 87 ° 52 ' 47.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 45		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1	1.5					
			2	**SILTY CLAY**, trace fine subrounded gravel, low plasticity, black (10YR 2/1), moist, stiff- hard.					>4.5					Sample: GP-35 (2'-4')
			3	Cobbles at 3 feet.				<1	2.75					
				Color change to dark grayish brown (10YR 4/2) at 3.25 feet.										
GP	48 44		4	Color change to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 4 feet.					4.25					
			5	Swelling for 3 feet begining at 5 feet.	CL			<1	2.0					
			6						1.75					Sample: GP-35 (6'-8')
			7					<1	2.5					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-36

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 59.8 "
Long 87 ° 52 ' 47.5 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 24		1	**ASPHALT**.										
			1	**CONCRETE**.				1.0						
			2	**GRAVELLY SAND**, little fine- coarse subangular gravel, mostly coarse sand, yellowish brown (10YR 5/6), moist.	SW									Sample: GP-36 (2'-4')
			3	**SILTY CLAY**, trace fine sand, gray (10YR 5/1), very dark grayish brown (10YR 3/2) and yellowish brown (10YR 5/6), very stiff.				1.3	3.25					
GP	48 48		4	Color change to gray (10YR 5/1), and brownish yellow (10YR 6/6) at 4 feet.					3.5					
			5					<1	>4.5					
			6						>4.5					
			7	Swelling for 1.5 feet begining at 6.5 feet.	CL			1.0	1.25					
GP	48 48		8						4.25					
			9					<1	4.25					
			10						3.5					Sample: GP-36 (10'-12')
			11	Color transition to very dark grayish brown (10YR 3/2) at 10.5 feet.				<1	3.5					
			12											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-36 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				End of boring at 12 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-37

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 10, T 1 N, R 22 E
Lat 42 ° 33 ' 58.6 "
Long 87 ° 52 ' 33.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 46		1	**SANDY GRAVEL**, few fine-coarse subangular- subrounded, fine-coarse sand, yellowish brown (10YR 5/6) and light brownish gray (10YR 6/2).	GP			<1	>4.5					
			2	**trace fine-coarse subrounded gravel, low plasticity, grayish brown (10YR 5/2), moist hard.**	CL				3.25					Sample: GP-37 (2'-4')
			3	Clay with no gravel, very dark grayish brown (10YR 3/2) in color for 3 inches at 2 feet.	SW			<1	3.25					
GP	48 48		4	**WELL GRADED SAND**, fine- medium sand, yellowish brown (10YR 5/6), very stiff.					>4.5					
			5	Cobbles, subangular, white (10YR 8/1) at 2.75 feet.				<1	2.75					
			6	**SILTY CLAY**, very dark grayish brown (10YR 3/2), same as above, hard.	CL				4.0					Sample: GP-37 (6'-8')
			7	Color change to grayish brown (10YR 5/2), hard at 4 feet. Trace fine sand, gray (10YR 5/1) and brownish yellow (10YR 5/6) at 4.25 feet, very stiff.				<1	>4.5					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-38

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 33 ' 59.8 "
Long 87 ° 52 ' 30.1 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 28		1	**TOPSOIL**, yellowish brown (10YR 3/4), moist.										
			2	**SILTY CLAY**, trace fine subangular-subrounded gravel, dark yellowish brown (10YR 3/2), yellow (10YR 7/8) and light brownish yellow (10YR 6/2), moist, very stiff.				<1	2.5					
			3	Color change to dark yellowish brown (10YR 4/4), very stiff at 3 feet.				<1	3.75					Sample: GP-38 (2'-4')
GP	48 48		4	Color change to dark yellowish brown (10YR 4/4) with gray (10YR 5/1) at 4 feet.	CL				2.25					
			5					<1	2.75					
			6						3.5					
			7					<1	4.5					Sample: GP-38 (6'-8')
			8	End of boring at 8 feet bgs.					>4.5					

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-39

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 33 ' 59.6 "
Long 87 ° 52 ' 31.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		0	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.										
			1	**SILTY CLAY**, trace fine sand, low plasticity, very dark grayish brown (10YR 3/2), dark grayish brown (10YR 4/2) and yellowish brown (10YR 5/8), moist, medium.	CL			<1	1.0					
			2	Sand lens for 3 inches at 1.5 feet.					1.0					Sample: GP-39 (2'-4')
			3	**SANDY CLAY**, trace fine subrounded gravel, low plasticity, grayish brown (10YR 5/2), moist, medium.	CL			<1	3.5					
			4	End of boring at 4 feet bgs.										

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-40

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 33 ' 59.7 "
Long 87 ° 52 ' 33.6 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0	**TOPSOIL**, black (10YR 2/1), moist.										
			1	**GRAVELLY SAND**, mostly fine- coarse sand, trace fine- coarse subangular-subrounded gravel, yellowish brown (10YR 5/6).	SW			<1						
			2	**SILTY CLAY**, trace fine subrounded gravel, low plasticity, gray (10YR 5/1), moist, stiff.	CL				2.0					Sample: GP-40 (2'-4')
			3	**SANDY CLAY**, some fine-medium sand, trace fine subrounded gravel, yellowish brown (10YR 5/4), moist, stiff.	CL			<1	1.5					
GP	48 44		4	Sand lens 6 inches thick, brownish yellow (10YR 6/6) at 2.23 feet.	CL									
			5	**SILTY CLAY**, trace fine subrounded gravel, trace fine sand, low plasticity, dark grayish brown (10YR 4/2), moist, stiff. Cobble at 3.5 feet. Color change to yellowish brown (10YR 5/4) at 3.75 feet.	CL			<1	2.0 3.0					Sample: GP-40 (6'-8')
			7	**SANDY CLAY**, trace coarse subangular gravel, some fine-medium sand, low pasticity, yellowish brown (10YR 5/4), moist.					3.5					
			8	**SILTY CLAY**, trace fine sand, trace fine subrounded gravel, low plasticity, yellowish brown (10YR 5/4), moist, very stiff.										

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SOIL BORING LOG INFORMATION
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-41

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 0.2 "
Long 87 ° 52 ' 34.3 "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 24		0 1 2 3 4	**TOPSOIL**, black (10YR 2/1), moist.										
				WELL GRADED SAND, few fine-coarse subrounded gravel, mostly fine-coarse sand, brown (10YR 4/3).	SW			1.5						
				GRAVEL, fine subrounded gravel, brown (10YR 5/3).	GW				1.5					Sample: GP-41 (2'-4')
				CONCRETE, light gray (10YR 7/1).	CL			1.6	1.0					
				SANDY CLAY, trace subrounded fine-medium gravel, stiff.	CL									
				SILTY CLAY, trace coarse subrounded sand, gray (10YR 5/1) and brownish yellow (10YR 6/6), medium-stiff.										
				End of boring at 4 feet bgs.										

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

Signature	Firm	
	TRC	Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-42

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 33 ' 59.9 "
Long 87 ° 52 ' 36.1 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		0	**TOPSOIL**, very dark brown (10YR2/2), moist.										
			1	**GRAVELLY CLAY**, few fine subrounded gravel, brown (10YR 4/3), moist.	CL			<1						
			2	**ENGINEERED SAND** very pale brown (10YR 7/4).										Sample: GP-42 (2'-4')
			3					<1						
GP	48 30		4						0.25					
			5	**SILTY CLAY**, very dark brown (10YR 2/2), moist, swelling throughout, soft.				1.1	0.5					
			6	Color change to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 5.5 feet.	CL				1.0					Sample: GP-42 (6'-8')
			7					<1	1.75					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-43

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 4.0 " Long 87 ° 53 ' 11.4 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**ASPHALT**.										
			1	**COBBLES**, white (10YR 8/1).	GP			<1	4.5					
				POORLY GRADED SAND, medium-coarse sand, very pale brown (10YR 7/4).	SP									
			2						2.0					Sample: GP-43 (2'-4')
			3	**SILTY CLAY**, trace fine subrounded gravel, trace fine sand, gray (10YR 5/1), black (10YR 2/1), hard- very stiff. Old asphalt for 3 inches at 3.25 feet.				<1	4.25					
			4	Old asphalt for 4 inches at 3.75 feet.										
GP	48 36			Clay with trace fine sand, low plasticity, brown (10YR 5/3), brownish yellow (10YR 6/6), moist, stiff.					1.25					
			5					<1	2.25					
			6						0.5					
				Swelling for 1.5 feet starting at 6.5 feet, soft.	CL									
			7	Color change to brownish yellow (10YR 6/6), gray (10YR 5/1) and yellowish brown (10YR 5/8) at 6.5 feet.				<1	0					
GP	48 48		8	Color change to brown (10YR 5/3), very stiff to hard at 8 feet.					3.0					
			9					<1	3.5					
			10						>4.5					
			11					<1	>4.5					
			12											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-43 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48		13					<1	2.25 3.0					
			14		CL				3.25					Sample: GP-43 (14'-16')
			15					<1	4.25					
			16	End of boring at 16 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-44

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/26/2017	7/26/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 4.0 " Long 87 ° 53 ' 12.1 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**ASPHALT**										
			1	**SANDY GRAVEL**, few subangular-subrounded gravel, mostly medium- coarse sand, dark grayish brown (10YR 4/2),	GW			<1	>4.5					
			2	bottom 3 inches fine to coarse subangualr sand, light yellowish brown (10YR 6/4).					4.25					Sample: GP-44 (2'-4')
			3	**SILTY CLAY**, trace subangular coarse gravel, trace fine sand, gray (10YR 5/1), brownish yellow (10YR 6/6), very dark grayish brown (10YR 3/2), hard.				1.0	3.25					
GP	48 42		4	Color change to dark gray (10YR 4/1) at 2.5 feet.					2.5					
			5	Color change to very dark gray (10YR 3/1), very stiff at 3 feet.				<1	>4.5					
			6	Cobbles with clay for 3 inches starting at 4 feet.					>4.5					
			7	Clay includes little fine sand, no gravel, color returns to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 4.5 feet.	CL			<1	3.25					
GP	48 48		8	Swelling for 6 inches starting at 7.75 feet. Color change to dark yellowish brown (10YR 4/4) at 8 feet.					3.5					
			9	Sand lens of medium- coarse grains, dark yellowish brown (10YR 4/4)				<1	>4.5					
			10						>4.5					
			11					<1	>4.5					
			12											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-44 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	36		13	Trace fine subrounded gravel, color transitions to solid gray (10YR 5/1), very stiff-hard.	CL			<1	4.0 3.5					
			14					<1	3.25					Sample: GP-44 (14'-16')
			15	End of boring at 15 feet bgs due to refusal.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-45

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 58.4 "
Long 87 ° 52 ' 27.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		1	**GRAVELLY SAND**, some coarse subangular-subrounded gravel, mostly fine-coarse sand, dark yellow brown (10YR 4/6).	SP			<1	2.25					
			2	**SILTY CLAY**, few subangular gravel, low plasticity, very dark grayish brown (10YR 3/2), moist, very stiff.	CL				2.5					Sample: GP-45 (2'-4')
			3	**GRAVELLY SAND**, some coarse subangular-subrounded gravel, mostly fine-coarse sand, dark yellow brown (10YR 4/6).	SP			<1	2.5					
GP	48 48		4	**SILTY CLAY**, few subangular gravel, low plasticity, very dark grayish brown (10YR 3/2), moist, very stiff.	CL				2.5					
			5					<1	1.75					
			6	**SAND**, few subrounded gravel trace subrounded cobbles, brownish yellow (10YR 6/6)	SW				2.0					Sample: GP-45 (6'-8')
			7	**SILTY CLAY**, trace fine sand, trace subrounded gravel, black (10YR 2/1) and gray (10YR 5/1), moist, very stiff. Color change to black (10YR 2/1) at 4 feet. Color chage to gray (10YR 5/1) at 4.5 feet. Swelling for 1.25 feet begining at 6.75 feet.	CL			<1	1.25					
			8	End of boring at 8 feet bgs.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-46

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.4 "
Long 87 ° 52 ' 25.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 38		1	**GRAVELLY SAND**, very dark grayish brown (10YR 3/2), yellowish brown (10YR 5/6).	SW				2.25					
			2	**SILTY CLAY**, trace fine sand, black (10YR 2/1), moist, very stiff.					1.75					Sample: GP-46 (2'-4')
				Sand lens 2 inches thick at 2.5 feet.	CL									
			3	With trace subrounded-subangular fine gravel, black (10YR 2/1) and gray (10YR 5/1) at 3 feet.					1.5					
			4	Color transition to black (10YR 2/1), stiff at 3.25 feet										
				End of boring at 4 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-47

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.5 "
Long 87 ° 52 ' 27.0 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 34		0	**TOPSOIL**, very dark grayish brown (10YR 3/2), moist.										
			1	**SAND**, medium- coarse sand, trace fine subangular-subrounded gravel, brownish yellow (10YR 6/6), moist.	SP			<1						Sample: GP-47 (2'-4')
			2											
			3	**SANDY CLAY**, trace subangular gravel, little sand, dark grayish brown (10YR 4/2), moist, soft.	CL			<1	0.5					
			4	**SAND**, medium- coarse sand, trace coarse subangular-subrounded gravel, brownish yellow (10YR 6/6), moist.	SP				1.5					
GP	48 36		5	**SILTY CLAY**, trace fine subrounded gravel, trace medium subangular sand, very dark gray (10YR 3/1), moist, stiff.				<1	1.75					
			6	Swelling for 1.5 feet begining at 6.5 feet.	CL				1.0					Sample: GP-47 (6'-8')
			7					<1						
			8	End of boring at 8 feet bgs.										

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-48

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.5 "
Long 87 ° 52 ' 28.1 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0	**TOPSOIL**, grayish brown (10YR 5/2), moist.										
			1	**SANDY GRAVEL**, some clay, fine subrounded gravel, yellowish brown (10YR 5/6).				<1						
			2		GW				2.25					Sample: GP-48 (2'-4')
			3	**SILTY CLAY**, few coarse subrounded gravel, pale brown (10YR 6/3), moist, very stiff.				<1	1.25					
			4	Sand lens, brownish yellow (10YR 6/6) at 3.25 feet. End of boring at 4 feet bgs.	CL									

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	TRC	Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-49

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NW 1/4 of NW 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 57.9 " Long 87 ° 52 ' 12.3 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 34		1	**TOPSOIL**, brown (10YR 4/3), moist.										
			2	**SILTY CLAY**, trace fine-medium subrounded gravel, trace coarse sand, dark brown (10YR 3/3), moist, very stiff.				<1	3.25					
									>4.5					Sample: GP-49 (2'-4')
			3	Color change to yellowish brown (10YR 5/4) at 3 feet.				<1	3.0					
GP	48 48		4	Color change to light yellowish brown (10YR 6/4), black (10YR 2/1) and gray (10YR 5/1) at 4 feet					3.0					
			5		CL			<1	1.5					
			6						1.25					
			7	Color transition to gray (10YR 5/1).				<1	1.25					
GP	48 24		8						0.75					
			9	**COBBLES**, medium- coarse angular cobbles, with clay, black (10YR 2/1) and white (10YR 8/1), wet.				<1	0.75					
			10	**SILTY CLAY**, trace coarse subrounded sand, dark grayish brown (10YR 4/2), moist, hard.					>4.5					
			11		CL			<1	1.5					
			12											

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

Signature	Firm	Tel:
	TRC	Fax:

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-49 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48		13	Trace fine subrounded gravel, trace fine-coarse sand, gray (10YR 5/1), very stiff at 12 feet.				<1	3.8 3.5					
			14		CL				3.25					Sample: GP-49 (14'-16')
			15					<1	2.25					
			16	End of boring at 16 feet bgs.										

State of Wisconsin
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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-50

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.1 "
Long 87 ° 52 ' 11.1 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		1	**TOPSOIL**, black (10YR 2/1), moist.				<1	2.25 2.75					
			2	**SILTY CLAY**, trace fine sand, trace fine subrounded gravel, yellowish brown (10YR 5/8) and very dark grayish brown (10YR 3/2), moist, stiff.					1.0					Sample: GP-50 (2'-4')
			3	Color transition to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 3 feet.				<1	1.25					
GP	48 46		4	Trace fine subrounded cobbles at 4 feet.					>4.5					
			5					1.0	3.0					
			6						3.0					
			7		CL			<1	1.5					
GP	48 46		8						2.0					
			9					<1	3.5					
			10						2.0					
			11					<1	2.0					
			12											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-50 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48		13	Color transition to gray (10YR 5/1) and brown (10YR 5/3) at 12.25 feet.				<1	3.5 3.0					
			14		CL				4.0					Sample: GP-50 (14'-16')
			15					<1	4.25					
			16	End of boring at 6 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-51

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.2 " Long 87 ° 52 ' 12.3 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1	**TOPSOIL**, very dark brown (10YR 2/2), moist.				<1						
			2	**SILTY CLAY**, trace fine subrounded sand, gray (10YR 5/1), very dark grayish brown (10YR 3/2) and brownish yellow (10YR 6/6), moist, medium.					1.75					Sample: GP-51 (2'-4')
			3					<1	1.0					
GP	48 48		4						2.75					
			5					<1	4.0					
			6	Swelling for 2 inches at 6 feet.					3.75					
			7		CL			<1	2.5					
GP	48 48		8	Cobble at 7.5 feet. color change to yellowish brown (10YR 5/4) at 7.75 feet.					4.25					
			9	Color change to light yellowish brown (10YR 6/4) at 8.25 feet.				<1	>4.5					
			10						2.25					
			11					<1	4.25					
			12											

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-51 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 46		13	Color change to gray (10YR 5/1), very stiff at 12.25 feet.					2.25					
								<1	2.25					
			14		CL				3.5					Sample: GP-51 (14'-16')
			15					<1	2.0					
			16	End of boring at 16 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-52

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.9 "
Long 87 ° 52 ' 12.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 42		0	**TOPSOIL**, some coarse subangular gravel, very dark brown (10YR 2/2), moist.					1.75					
			1	**SILTY CLAY**, trace fine sand, very dark grayish brown (10YR 3/2), moist, stiff.				<1	1.5					
			2		CL				2.0					Sample: GP-52 (2'-4')
			3	Color transitions to gray (10YR 5/1), yellowish brown (10YR 5/6) and light yellowish brown (10YR 6/4), very stiff at 4 feet.				<1	4.0					
			4	End of boring at 4 feet bgs.										

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	TRC	Tel: Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-53

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.0 "
Long 87 ° 52 ' 13.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1 2 3 4	**GRAVELLY SAND**, fine-coarse subrounded- subangular gravel, mostly fine-coarse sand, few silt, white (10YR 8/1). Color transitions to very dark grayish brown (10YR 3/2), at 1 foot. Color changes to yellowish brown (10YR 5/6) at 1.5 feet.	SW			<1 <1						Sample: GP-53 (2'-4')
				End of boring at 4 fee bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-54

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SW 1/4 of SW 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.1 "
Long 87 ° 52 ' 16.0 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		1	**SANDY GRAVEL**, fine-coarse gravel and sand, gray (10YR 5/1).	GW									
			2	**CLAYEY SAND**, trace coarse subangular-subrounded gravel, fine-coarse sand, very dark grayish brown (10YR 3/2).	SC			<1	2.75					Sample: GP-54 (2'-4')
			3	**SILTY CLAY**, few fine subrounded gravel, few coarse sand, dark yellowish brown (10YR 4/4), moist, very stiff. Sand lens 2 inches thick, yellowish brown (10YR 5/6) at 3.25 feet.	CL			<1	2.0					
			4	Color change to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 3.75 feet. End of boring at 4 feet bgs.										

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SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-55

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 58.0 "
Long 87 ° 51 ' 48.5 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		0	**ASPHALT**.										
				CONCRETE.										
			1	**SAND**, coarse subangular-subrounded sand, trace gravel, brownish yellow (10YR 6/6), moist.	SP			<1	2.25					
			2	**SILTY CLAY**, trace subrounded coarse sand, low plasticity, black (10YR 2/1), moist, very stiff.										Sample: GP-55 (2'-4')
			3	With cobbles for 4 inches at 2.5 feet.				5.0						
GP	48 48		4	Cobbles for 3 inches, coarse angular, white (10YR 8/1) at 3.5 feet Trace fine sand, color changes to gray (10YR 5/1) and light yellowish brown (10YR 6/4) at 4 feet.	CL				2.0					
			5					<1	1.5					
			6						>4.5					Sample: GP-55 (6'-8')
			7					<1	4.0					
			8	End of boring at 8 feet bgs										

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SOIL BORING LOG INFORMATION
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-56

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 57.9 "
Long 87 ° 51 ' 45.8 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 34		0 1 2 3	**TOPSOIL**, very dark brown (10YR 2/2), moist. **SANDY GRAVEL**, coarse- fine subangular gravel, light gray (10YR 7/1). **SILTY CLAY**, few fine subrounded gravel, black (10YR 2/1). With coarse subangular- angular gravel for 1 foot at 2 feet. Strong petroleum odor.	GP			230.8 413.8	3.25 2.25 1.75					Sample: GP-56 (0'-2')
GP	48 48		4 5 6 7	Trace subangular sand, no gravel, color change to black (10YR 2/1) and gray (10YR 5/1) at 4 feet. Color change to brown (10YR 5/3) at 5.75 feet.	CL			746.7 102.1	1.75 1.25 >4.5 >4.5					Sample: GP-56 (4'-6')
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-57

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 58.9 "
Long 87 ° 51 ' 45.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48			**TOPSOIL**, very dark brown (10YR 2/2), moist.					3.5					Sample: GP-57 (0'-2')
			1	**SILTY CLAY**,trace fine- coarse subrounded gravel, little fine-coarse sand, yellowish brown (10YR 5/6), moist, very stiff.				<1	3.5					
			2	Trace sand, trace-no gravel, color change to yellowish brown (10YR 5/6) and gray (10YR 5/1) at 2.25 feet.					3.25					
			3	No gravel found at 3 feet.				<1	4.25					
GP	48 44		4	Swelling for 1.25 feet begining at 4 feet.	CL				2.75					Sample: GP-57 (4'-6')
			5					<1	4.0					
			6	With trace fine subrounded gravel at 6 feet.					3.5					
			7					<1	3.25					
			8	End of boring at 8 feet bgs.										

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SOIL BORING LOG INFORMATION
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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-58

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/27/2017	7/27/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 59.0 "
Long 87 ° 51 ' 48.7 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 42		1	**GRAVEL**, fine-medium subrounded gravel, black (10YR 2/1).	GP									
			2	**SILTY CLAY**, trace sand and gravel, nonplastic, very dark grayish brown (10YR 3/2), moist, stiff. With little very fine sand at 1.25 feet.	CL			<1	1.5					
			3	**SILTY SAND**, yellowish brown (10YR 5/6) with some very dark brown (10YR 2/2), moist.	SM			<1						Sample: GP-58 (2'-4')
GP	48 45		4	**SILTY CLAY** trace sand, low plasticity, very dark gray (10YR 3/1), moist, stiff. Color transitions to brown (10YR 5/3) and yellowish brown (10YR 5/6) at 4.25 feet.	CL				1.5					
			5					<1	1.5					
			6						1.75					Sample: GP-58 (6'-8')
			7	Swelling at 7.25 feet.				<1	1.25					
			8	End of boring at 8 feet bgs.										

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

Signature	Firm	
	TRC	Tel: Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-59

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 58.0 "
Long 87 ° 51 ' 44.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0	**TOPSOIL**, dark yellowish brown (10YR 3/4), moist.										
			1	**GRAVELLY SAND**, little coarse subangular gravel, light gray (10YR 7/1).	SP			<1	0.75					
			2	**CLAYEY SAND**, mostly coarse-fine sand, trace fine subrounded gravel, very dark grayish brown (10YR 3/2), soft.	SC				1.0					
			3	**SILTY CLAY**, Gray (10YR 5/1) and black (10YR 2/1), slight petroleum odor.				62.7	1.0					
GP	48 48		4	Trace subrounded fine gravel, color transitions fo gray (10YR 5/1) and brownish yellow (10YR 6/6), very stiff at 4 feet.					3.25					Sample: GP-59 (2'-4')
			5					1413	0.75					
			6						0.75					
			7		CL			385.4	1.0					
GP	48 48		8	Color transitions to brown (10RY 5/3), petroleum odor stopped.					3.75					
			9					4.6	3.75					
			10						4.0					
			11					2.7	3.0					
			12											

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SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-59 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48			Trace fine gravel, color transitions to gray (10YR 5/1) at 12 feet.					4.25					
			13					12	3.5					
			14		CL				3.5					Sample: GP-59 (14'-16')
			15					4.8	3.25					
			16	End of boring at 16 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-60

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 58.0 "
Long 87 ° 51 ' 41.9 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 24		1	**ASPHALT** **SILTY GRAVEL**, mostly coarse subrounded-subangular gravel, brownish yellow (10YR 6/6), moist, stiff.	GM			1.6	1.25					Sample: GP-60 (0'-2')
			2	**SILTY CLAY**, trace fine subrounded gravel, trace sand, olive (5Y 4/4) and gray (5Y 5/1), moist, stiff.					0.75					
			3	Color changes to very dark brown (10YR 2/2) for 2 inches at 2.75 feet.				1.4	.25					
GP	48 48		4	Color transitions to very dark brown (10YR 2/2) at 3.5 feet. Color changes to gray (10YR 5/1) and brown (10YR 4/3), very stiff at 4 feet.					3.0					
			5					1.3	3.5					
			6	Color transitions to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 6 feet.	CL				2.25					
			7					<1	2.75					
GP	48 48		8	Little to no gavel, color chages to grayishh brown (10YR 5/2), swelling for 6 inches starting at 8 feet.					2.5					
			9					<1	>4.5					
			10						4.0					Sample: GP-60 (10'-12')
			11					<1	4.5					
			12											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-60 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample									Soil Properties					
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				End of boring at 12 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-61

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
NE 1/4 of NE 1/4 of Section 11, T 1 N, R 22 E
Lat 42 ° 33 ' 58.1 "
Long 87 ° 51 ' 40.4 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 24		0 1 2 3	**GRAVELLY SAND**, subangular-subrounded coarse 2 inch gravel, white (10YR 8/1). **ASPHALT**, coarse subrounded gravel, very dark brown (10YR 2/2). **SILTY CLAY**, trace coarse sand, trace fine subrounded gravel, gray (10YR 5/1), brownish yellow (10YR 6/6), and yellowish brown (10YR 5/6), moist, soft-hard.	SP			<1	0.5 1.25 <1	>4.5				Sample: GP-61 (0'-2')
GP	48 48		4 5 6 7	Swelling for 1.5 feet starting at 4 feet.	CL			<1 <1	3.75 2.75 >4.5 >4.5					Sample: GP-61 (6'-8')
			8	Swelling for 6 inches starting at 7.5 feet. End of boring at 8 feet bgs.										

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Signature	Firm	Tel:
	TRC	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-62

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SE 1/4 of Section 2, T 1 N, R 22 E
Lat 42 ° 33 ' 58.8 " Long 87 ° 51 ' 41.9 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 42		0	**GRAVEL**, coarse angular gravel, white (10YR 8/1).	GP									Sample: GP-62 (0'-2)
			1	**SILTY CLAY**, trace coarse sand, trace fine subrounded gravel, low plasticity, black (10YR 2/1), moist, very stiff.				<1	2.25					
			2	Sand lens, few coarse subangular gravel, brownish yellow (10YR 6/6) for 3 inces at 1 foot.					1.5					
			3	Color changes to gray (10YR 5/1) and brownish yellow (10YR 6/6) at 1.5 feet.				<1	2.0					
GP	48 42		4	And brown (10YR 5/3) at 4 feet.	CL				>4.5					Sample: GP-62 (4'-6')
			5					<1	>4.5					
			6						4.0					
			7					<1	4.25					
			8	End of boring at 8 feet bgs.										

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-63

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 2.0 "
Long 87 ° 53 ' 12.6 "
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 36		0	**ASPHALT**.										
			1	**GRAVELLY SAND**, fine-medium subangular gravel, fine- coarse sand, grayish brown (10YR 5/2), moist.	SP			3.8	3.75					
			2	**SILTY CLAY**, trace sand and fine gravel, nonplastic, dark grayish brown (10YR 4/2) and yellowish brown (10YR 5/6), very stiff.					2.5					Sample: GP-63 (2'-4')
			3					1.3	2.75					
GP	48 48		4	Subangular cobble, 2 inches, white (10YR 8/1) at 3.75 feet.					>4.5					
			5					<1	>4.5					
			6						>4.5					
			7	Trace subrounded fine gravel, color change to gray (10YR 5/1) and brown (10YR 5/3), hard at 7 feet.	CL			<1	>4.5					
GP	48 48		8	Nonplastic, grayish brown (10YR 5/2) at 8 feet.					3.5					
			9					<1	3.25					
			10						3.5					
			11					<1	>4.5					
			12											

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-63 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 46		13	No coarse gravel present, color change to dark gray (10YR 4/1), very stiff at 12.25 feet.					2.75					
			14	Nonplastic, color change to dark gray (10YR 4/1) and dark yellowish brown (10YR 4/6), very stiff at 13 feet.	CL				2.5 2.75					Sample: GP-63 (14'-16')
			15						2.0					
			16	End of boring at 16 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Page 1 of 1

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-64

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 2.0 " Long 87 ° 53 ' 11.2 "
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 24		0	**ASPHALT**.										
			1	**SILTY GRAVEL**, fine- coarse subangular subrounded gravel, very dark grayish brown (10YR3/2).	GM			1.8	>4.5					
			2	**SILTY CLAY**, trace coarse angular gravel, black (10YR 2/1) and gray (10YR 5/1), moist, hard.					>4.5					Sample: GP-64 (2'-4')
			3					2.1	2.25					
GP	48 48		4	Trace to no gravel, color change to gray (10YR 5/1) and brown (10YR 5/3), hard at 4 feet.					>4.5					
			5					<1	>4.5					
			6		CL				>4.5					
			7					<1	>4.5					
GP	36 24		8	Nonplastic, very stiff at 8.5 feet.					2.75					
			9					<1	>4.5					
			10					<1	>4.5					Sample: GP-64 (10'-11')
			11	End of boring at 11 feet bgs due to refusal.										

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Signature | Firm TRC | Tel: Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION
Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-65

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	7/28/2017	7/28/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane N, E S/C/N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42 ° 34 ' 1.2 "
Long 87 ° 53 ' 10.8 "
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 40		1	**GRAVELLY SAND**, some coarse-fine subangular gravel, very dark grayish brown (10YR 3/2).	SP									
			2	**SILTY CLAY**, trace fine subrounded gravel, black (10YR 2/1) and gray (10YR 5/1), moist, hard. Color change to gray (10YR 5/1) and yellowish brown (10YR 5/4) at 2 feet.				<1	2.75 >4.5					Sample: GP-65 (2'-4')
			3					<1	>4.5					
GP	48 32		4	With few to little sand from 4 to 7.75 feet, color change to brownish yellow (10YR 6/8) at 4 feet.					>4.5					
			5	Swellig for 3.5 feet starting at 4.5 feet.	CL			<1	>4.5					
			6						>4.5					
			7					<1	3.25					
GP	48 24		8	Color change to gray (10YR 5/1) at 8.25 feet.					0.75					
			9	**SANDY CLAY**, mostly fine- coarse sand, trace fine-coarse gravel, nonplastic, dark yellowish brown (10YR 4/6), hard.										
			10		CL									
			11											
			12											

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Signature	Firm	
	TRC	Tel: Fax:

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Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-65 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 30		13	**SAND**, fine- medium coarse sand, yellowsh brown (10YR 5/6), saturated.										
				Mostly fine sand and few silt for 6 inches, gray (10YR 5/1), saturated at 13 feet.				<1						
			14	Coarse subangular sand, medium to fine subangular gravel at 13.5 feet.	SP									Sample: GP-65 (14'-16')
			15	Trace coarse subrounded gravel, mostly fine to medium sand and silt, gray (10YR 5/1), saturated at 14.25 feet.				<1						
			16	End of boring at 16 feet bgs.										

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-66

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	9/11/2017	9/11/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 213,946 N, 2,537,693 E S / C / N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42° 34' 1.9" Long 87° 53' 13.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 40		0	**TOPSOIL** with grass										
			1	**CLAY**, trace silt, trace coarse subrounded sand, low plasticity, brown (10YR 5/3), no odor, moist, very stiff-hard				1.3	2.25					
			2						2.5					Sample: GP-66 (2'-4')
			3		CL			1.4	2.5					
GP	48 42		4						2.5					
			5					1.1	4.0					
			6	**SILTY CLAY**, trace coarse subrounded sand, moderate plasticity, brown (10YR 5/3), no odor, moist, medium- hard					0.75					
			7					1.2	1.5					
GP	48 48		8	dry, brown to grayish brown (10YR 5/2)					2.75					
			9		CL			1.3	7.75					
			10						3.0					Sample: GP-66 (10'-12')
			11					<1	2.75					
			12											

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

Signature	Firm	Tel:
Ross Hartwig	TRC	Fax:

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-66 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48			moist					2.75					
			13					<1	2.5					
			14		CL				2.25					
			15					<1	2.5					
			16	End of boring at 16 feet bgs					2.5					

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-67

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	9/11/2017	9/11/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 213,873 N, 2,537,769 E S / C / N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42° 34' 1.2" Long 87° 53' 12.1"
Local Grid Location ☐ N Feet ☐ S ☐ E Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 41		0	**TOPSOIL** with grass										
			1	**SILTY CLAY**, trace coarse sand, dark yellowish brown (10YR 4/4), moderate organic odor, dry, rootlets				12.0	2.5					
			2						2.5					Sample: GP-67 (2'-3')
			3					12.8	2.5					
GP	48 48		4	trace fine subangular gravel, dark yellowish brown to brown (10YR 4/3)	CL				3.0					
			5					<1	3.5					
			6						3.0					
			7	dry to moist				<1	4.0					
GP	48 48		8	**CLAY**, trace fine subangular gravel, low plasticity, brown (10YR 5/3), no odor, moist, hard- very stiff					>4.5					
			9					<1	>4.5					
			10		CL				>4.5					
			11					<1	>4.5					
			12											

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Signature	Firm	Tel:
Ross Hartwick	TRC	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION SUPPLEMENT
Form 4400-122A

Boring Number GP-67 Use only as an attachment to Form 4400-122. Page 2 of 2

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
GP	48 48		13					<1	3.0 3.0					Sample: GP-67 (12'-14')
			14		CL				3.0					
			15	moderate plasticity, brown to dark grayish brown (10YR 4/2)				<1	3.0					
			16	End of boring at 16 feet bgs					3.0					

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-68

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	9/11/2017	9/11/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 213,952 N, 2,537,899 E S / C / N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42° 34' 2.0" Long 87° 53' 10.4"
Local Grid Location ☐ N ☐ S Feet ☐ E ☐ W Feet

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 48		0	**ASPHALT**										
			1	**FILL**, fine-coarse sand and gravel, light brownish gray (10YR 6/2), no odor, dry				<1	>4.0					
			2	**CLAY**, low plasticity, gray (10YR 5/1), no odor, moist, hard					>4.0					Sample: GP-68 (2'-4')
			3	gray to gray mottled brown (10YR 4/3)				<1	>4.0					
GP	48 48		4						>4.0					
			5		CL			<1	>4.0					
			6						>4.0					
			7					<1	>4.0					
GP	12 12		8	mottled brown to grayish brown (10YR 5/2)					>4.0					Sample: GP-68 (8'-9')
			9	Refusal at 9 feet bgs				<1	>4.0					

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

Signature	Firm	Tel:
Ross Hartwig	TRC	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-69

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	9/11/2017	9/11/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 214,029 N, 2,537,856 E S / C / N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42° 34' 2.7" Long 87° 53' 10.9"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 45		0	**TOPSOIL**, with grass										
			1	**CLAY**, moderate plasticity, very dark grayish brown (10YR 3/2), no odor, moist, very stiff-hard				1.4	2.5					
			2	some subangular gravel (2.0'-2.3')					>4.0					Sample: GP-69 (2'-3')
			3					1.4	2.5					
GP	48 42		4						2.0					
			5	trace coarse subrounded sand, very dark grayish brown to brown (10YR 4/3)				<1	2.0					
			6		CL				2.0					
			7					<1	2.5					
GP	42 42		8						2.0					
			9					<1	>4.0					
			10						>4.0					Sample: GP-69 (10.5'-11.5')
			11											
				Refusal at 11.5 feet bgs				<1	>4.0					

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

Signature	Firm	Tel:
Ross Hartwig	TRC	Fax:

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Multiple Sites Along STH 50		GP-70

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Dan Bendorf Probe Technologies	9/11/2017	9/11/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			Feet MSL	Feet MSL	2.0 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☒
State Plane 214,061 N, 2,537,739 E S / C / N
SE 1/4 of SW 1/4 of Section 3, T 1 N, R 22 E
Lat 42° 34' 3.1" Long 87° 53' 12.5"
Local Grid Location ☐ N ☐ E Feet ☐ S Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Kenosha	30	Kenosha

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
GP	48 35		0 1 2 3	**ASPHALT** **FILL**, fine-coarse sand and gravel, poorly sorted, dark grayish brown (10YR 4/2) and gray (10YR 6/1), no odor, dry				1.3 <1						
GP	48 43		4 5 6 7	**CLAY**, trace coarse sand, moderate plasticity, dark gray (10YR 4/1), no odor, mosit, very stiff-hard dark gray to dark gray mottled brown (10YR 5/3) dark gray mottling to brown (10YR 5/3)	CL			1.1 <1	2.5 2.75 >4.0 >4.0					Sample: GP-70 (4'-6')
GP	30 30		8 9 10					<1	>4.0 >4.0					Sample: GP-70 (10'-10.5')
				Refusal at 10.5 feet bgs				<1	>4.0					

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

Signature Ross Hartwig Firm TRC Tel: Fax:

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State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-01

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.5" N / 87 ° 54 ' 53.1" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	8	1	22 ☒ E ☐ W

or Gov't Lot #

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-02

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.5" N / 87 ° 54 ' 49.5" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NW	9	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-03

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.6" N / 87 ° 54 ' 43.4" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NW	9	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-04

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.7" N / 87 ° 54 ' 41.4" W
Method Code (see instructions):

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		9	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-05

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.7" N / 87 ° 54 ' 39.2" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NW	9	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-06

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.7" N / 87 ° 54 ' 37.3" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NW	9	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-07

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.3 " N / 87 ° 54 ' 41.3" W
Method Code (see instructions):

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		9	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-08

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.9 " N / 87 ° 54 ' 41.4" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-09

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.9 " N / 87 ° 54 ' 42.4" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-10

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.3 " N / 87 ° 54 ' 49.4" W
Method Code (see instructions):

¼ / ¼ NW	¼ NW	Section	Township	Range
or Gov't Lot #		9	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	14.0	0.4	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-11

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.9" N / 87 ° 54 ' 52.2" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	8	1	☒ E ☐ W

or Gov't Lot #

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	15.0	0.45	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-12

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.0 " N / 87 ° 54 ' 51.9" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		5	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-13

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.8 " N / 87 ° 54 ' 53.4" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		5	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-14

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.7 " N / 87 ° 54 ' 54.8" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		5	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/24/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-15

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 2.4 " N / 87 ° 54 ' 51.7" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	5	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-16

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.7 " N / 87 ° 54 ' 55.8" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	5	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-17

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.8 " N / 87 ° 54 ' 49.1" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-18

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 2.7 " N / 87 ° 53 ' 43.0" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-19

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.3 " N / 87 ° 53 ' 43.3" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-20

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.3 " N / 87 ° 53 ' 45.0" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	12.0	0.35	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-21

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.7 " N / 87 ° 53 ' 45.0" W
Method Code (see instructions):

¼ / ¼ SW	¼ SW	Section	Township	Range
or Gov't Lot #		4	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	11.0	0.35	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-22

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.8" N / 87 ° 53 ' 16.8" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NW	10	1	☒ E ☐ W

or Gov't Lot #

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-23

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.0" N / 87 ° 53 ' 14.4" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NW	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-24

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.4" N / 87 ° 53 ' 13.5" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NW	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-25

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.7" N / 87 ° 53 ' 10.9" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NW	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-26

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.5" N / 87 ° 53 ' 9.8 " W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NE	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-27

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.6" N / 87 ° 53 ' 8.2 " W
Method Code (see instructions):

¼ / ¼ NW	¼ NE	Section	Township	Range
or Gov't Lot #		10	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-28

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.3" N / 87 ° 53 ' 6.3 " W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NE	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-29

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.0 " N / 87 ° 53 ' 9.9 " W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SE	3	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-30

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.0 " N / 87 ° 53 ' 10.8" W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-31

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.0 " N / 87 ° 53 ' 12.3" W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-32

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.6 " N / 87 ° 53 ' 16.3" W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/25/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-33

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.0" N / 87 ° 52 ' 48.7" W
Method Code (see instructions):

¼ / ¼ NW	¼ NE	Section	Township	Range
or Gov't Lot #		10	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-34

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.9" N / 87 ° 52 ' 48.1" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NE	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	11.3	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-35

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.0" N / 87 ° 52 ' 47.0" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NE	10	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-36

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.8" N / 87 ° 52 ' 47.5" W
Method Code (see instructions):

¼ / ¼ NW	¼ NE	Section	Township	Range
or Gov't Lot #		10	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	12.0	0.35	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-37

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.6" N / 87 ° 52 ' 33.9" W
Method Code (see instructions):

¼ / ¼ NE	¼ NE	Section	Township	Range
or Gov't Lot #		10	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-38

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.8" N / 87 ° 52 ' 30.1" W
Method Code (see instructions):

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-39

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.6" N / 87 ° 52 ' 31.9" W
Method Code (see instructions):

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-40

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.7" N / 87 ° 52 ' 33.6" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SE	3	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-41

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 0.2 " N / 87 ° 52 ' 34.3" W
Method Code (see instructions):

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-42

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.9" N / 87 ° 52 ' 36.1" W
Method Code (see instructions):

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-43

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 4.0 " N / 87 ° 53 ' 11.4" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	3	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-44

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 4.0 " N / 87 ° 53 ' 12.1" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	3	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	15.0	0.45	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/26/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-45

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.4" N / 87 ° 52 ' 27.0" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NW	11	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-46

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.4" N / 87 ° 52 ' 25.0" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name: Lot #:

Reason For Removal From Service: Soil probe
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-47

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.5" N / 87 ° 52 ' 27.0" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-48

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.5" N / 87 ° 52 ' 28.1" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-49

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 57.9" N / 87 ° 52 ' 12.3" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NW	NW	11	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-50

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.1" N / 87 ° 52 ' 11.1" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-51

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.2" N / 87 ° 52 ' 12.3" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-52

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.9" N / 87 ° 52 ' 12.0" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-53

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.0" N / 87 ° 52 ' 13.9" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-54

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.1" N / 87 ° 52 ' 16.0" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SW	SW	2	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name: Lot #:

Reason For Removal From Service: Soil probe
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	4.0	0.13	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route: 7781 Pathfinder Lane
Telephone Number: (262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only
Date Received:
Noted By:
Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-55

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.0" N / 87 ° 51 ' 48.5" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	11	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-56

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 57.9" N / 87 ° 51 ' 45.8" W
Method Code (see instructions):

¼ / ¼ NE	¼ NE	Section	Township	Range
or Gov't Lot #		11	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-57

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.9" N / 87 ° 51 ' 45.8" W
Method Code (see instructions):

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		2	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-58

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 59.0" N / 87 ° 51 ' 48.7" W
Method Code (see instructions):

¼ / ¼ SE	¼ SE	Section	Township	Range
or Gov't Lot #		2	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/27/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-59

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.0" N / 87 ° 51 ' 44.4" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	11	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-60

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.0" N / 87 ° 51 ' 41.9" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
NE	NE	11	1	☒ E ☐ W

or Gov't Lot #

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	12.0	0.35	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-61

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.1" N / 87 ° 51 ' 40.4" W
Method Code (see instructions):

¼ / ¼ NE	¼ NE	Section	Township	Range
or Gov't Lot #		11	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-62

Lattitude / Longitude (Degrees and Minutes): 42 ° 33 ' 58.8" N / 87 ° 51 ' 41.9" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SE	2	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	8.0	0.25	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-63

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 2.0 " N / 87 ° 53 ' 12.6" W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-64

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 2.0 " N / 87 ° 53 ' 11.2" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	3	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	11.0	0.3	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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

☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-65

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.2 " N / 87 ° 53 ' 10.8" W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	3	1	22 ☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		7/28/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work:
Date Signed:

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-66

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.9 " N / 87 ° 53 ' 13.1" W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		9/11/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		9/11/2017

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-67

Lattitude / Longitude (Degrees and Minutes): 42 ° 34 ' 1.2 " N / 87 ° 53 ' 12.1"W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	3	1	☒ E ☐ W

or Gov't Lot #

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		9/11/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ross Hartwig for Dan Pratt Technologies
Date Signed: 9/11/2017

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-68

Lattitude / Longitude (Degrees and Minutes): 42" 34 ' 2.0 N / 87 ° 53 ' 10.4"W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		9/11/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
West Bend	WI	53090		9/11/2017

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-69

Lattitude / Longitude (Degrees and Minutes): 42" 34 ' 2.7 N / 87 ° 53 ' 10.9"W
Method Code (see instructions):

¼ / ¼ SE	¼ SW	Section	Township	Range
or Gov't Lot #		3	1	22 ☒ E ☐ W

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name	Lot #

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		9/11/2017

Street or Route	Telephone Number
7781 Pathfinder Lane	(262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: [signature]
Date Signed: 9/11/2017

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing

Form 3300-5 (R 4/08)

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☐ Verification Only of Fill and Seal

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

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Kenosha		GP-70

Lattitude / Longitude (Degrees and Minutes): 42° 34' 3.1" N / 87° 53' 12.5"W
Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range
SE	SW	3	1	☒ E ☐ W

or Gov't Lot #:

Well Street Address: STH 50- 117th Ave to 43rd Ave.

Well City, Village or Town	Well ZIP Code
Kenosha	53142

Subdivision Name: Lot #:

Reason For Removal From Service	WI Unique Well # of Replacement Well
Soil probe	

2. Facility / Owner Information

Facility Name: Multiple Sites Along STH 50
Facility ID (FID or PWS):
License/Permit/Monitoring #:
Original Well Owner: Wisconsin DOT
Present Well Owner: Wisconsin DOT
Mailing Address of Present Owner: 4803 Seboygan Ave., Rm 451

City of Present Owner	State	ZIP Code
Madison	WI	53707

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Drillhole / Borehole

Original Construction Date:
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (Specify) Direct push

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

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

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

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

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

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source	☐ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured ☐ Other (Explain)
(Bentonite Chips)

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Bentonite chips	Surface	16.0	0.5	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Bentonite chips		9/11/2017

Street or Route: 7781 Pathfinder Lane
Telephone Number: (262)470-4768

City	State	ZIP Code
West Bend	WI	53090

Signature of Person Doing Work: Ross Hartwig DBA Peak Technologies
Date Signed: 9/11/2017

DNR Use Only

Date Received	Noted By

Comments:

Appendix C
Photo Log

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC: 278962.0000.0000

Photo No.	Date
1	7/24/2017

Description
Looking northeast at GP-01.

Photo No.	Date
2	7/24/2017

Description
Looking west at GP-02.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC: 278962.0000.0000

Photo No.	Date
3	7/24/2017

Description
Looking north at GP-03.

Photo No.	Date
4	7/24/2017

Description
Looking north at GP-04.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC: 278962.0000.0000

Photo No.	Date
5	7/24/2017

Description
Looking east at GP-05.

Photo No.	Date
6	7/24/2017

Description
Looking north at GP-06.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC: 278962.0000.0000

Photo No.	Date
7	7/24/2017

Description
Looking south at GP-07.

Photo No.	Date
8	7/24/2017

Description
Looking south at GP-08.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC: 278962.0000.0000

Photo No.	Date
9	7/24/2017

Description
Looking south at GP-09.

Photo No.	Date
10	7/24/2017

Description
Looking southwest at GP-10.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
11	7/24/2017

Description
Looking southeast at GP-11.

Photo No.	Date
12	7/24/2017

Description
Looking southeast at GP-12.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
13	7/24/2017

Description
Looking southeast at GP-13.

Photo No.	Date
14	7/24/2017

Description
Looking west at GP-14.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
15	7/25/2017

Description
Looking east at GP-15.

Photo No.	Date
16	7/25/2017

Description
Looking southwest at GP-16.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
17	7/25/2017

Description
Looking west at GP-17.

Photo No.	Date
18	7/25/2017

Description
Looking east at GP-18.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
19	7/25/2017

Description
Looking southwest at GP-19.

Photo No.	Date
20	7/25/2017

Description
Looking west at GP-20.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
21	7/25/2017

Description
Looking southeast at GP-21.

Photo No.	Date
22	7/25/2017

Description
Looking northeast at GP-22.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
23	7/25/2017

Description
Looking northeast at GP-23.

Photo No.	Date
24	7/25/2017

Description
Looking northeast at GP-24.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
25	7/25/2017

Description
Looking northeast at GP-25.

Photo No.	Date
26	7/25/2017

Description
Looking northwest at GP-26.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
27	7/25/2017

Description
Looking west at GP-27.

Photo No.	Date
28	7/25/2017

Description
Looking north at GP-28.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
29	7/25/2017

Description
Looking south at GP-29.

Photo No.	Date
30	7/25/2017

Description
Looking northwest at GP-30.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
31	7/25/2017

Description
Looking southwest at GP-31.

Photo No.	Date
32	7/25/2017

Description
Looking southeast at GP-32.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
33	7/26/2017

Description
Looking northeast at GP-33.

Photo No.	Date
34	7/26/2017

Description
Looking southeast at red arrow pointing to GP-34.

Photographic Log

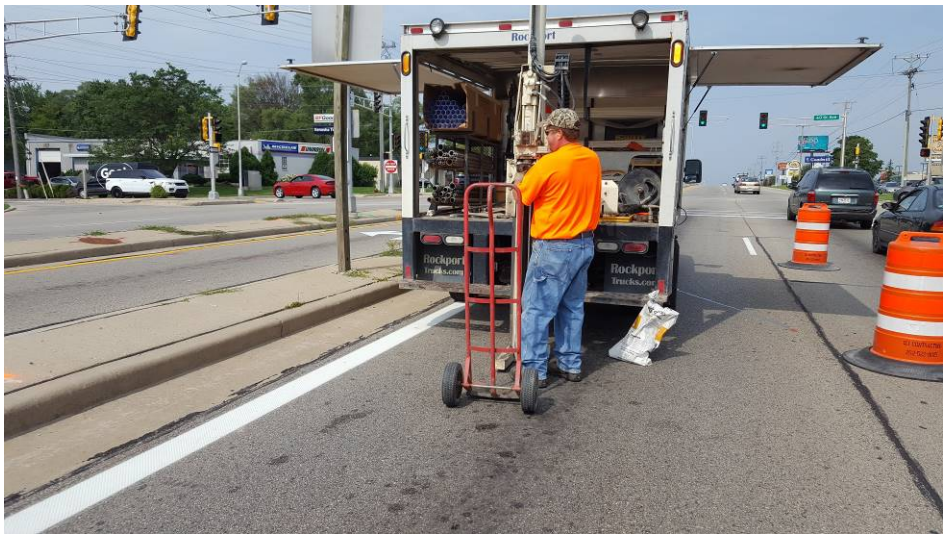
Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
35	7/26/2017

Description
Looking west at GP-35.

Photo No.	Date
36	7/26/2017

Description
Looking southeast at GP-36.



Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
37	7/26/2017

Description
Looking northeast at GP-37.

Photo No.	Date
38	7/26/2017

Description
Looking southeast at red arrow pointing to GP-38.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
39	7/26/2017

Description
Looking west at GP-39.

Photo No.	Date
40	7/26/2017

Description
Looking south at GP-40.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
41	7/26/2017

Description
Looking southwest at GP-41.

Photo No.	Date
42	7/26/2017

Description
Looking northeast at GP-42.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
43	7/26/2017

Description
Looking northeast at GP-43.

Photo No.	Date
44	7/26/2017

Description
Looking southwest at GP-44.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
45	7/27/2017

Description
Looking northeast at GP-45.

Photo No.	Date
46	7/27/2017

Description
Looking east at GP-46.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
47	7/27/2017

Description
Looking west at GP-47.

Photo No.	Date
48	7/27/2017

Description
Looking west at GP-48.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
49	7/27/2017

Description
Looking northeast at GP-49.

Photo No.	Date
50	7/27/2017

Description
Looking south at GP-50.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
51	7/27/2017

Description
Looking east at GP-51.

Photo No.	Date
52	7/27/2017

Description
Looking southeast at GP-52.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
53	7/27/2017

Description
Looking west at GP-53.

Photo No.	Date
54	7/27/2017

Description
Looking south at GP-54.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
55	7/27/2017

Description
Looking northeast at GP-55.

Photo No.	Date
56	7/27/2017

Description
Looking west at GP-56.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
57	7/27/2017

Description
Looking north at GP-57.

Photo No.	Date
58	7/27/2017

Description
Looking west at GP-58.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
59	7/28/2017

Description
Looking west at GP-59.

Photo No.	Date
60	7/28/2017

Description
Looking north at GP-60.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
61	7/28/2017

Description
Looking east at GP-61.

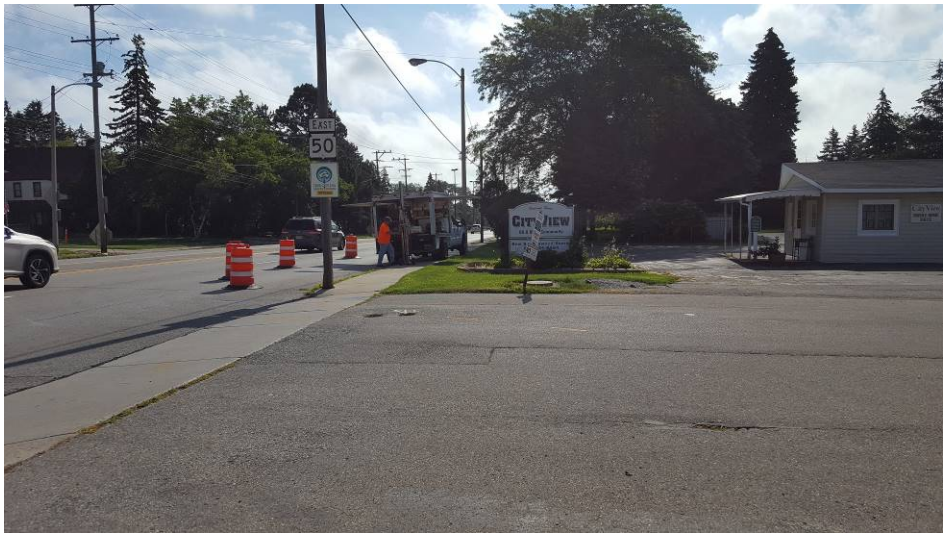


Photo No.	Date
62	7/28/2017

Description
Looking north at GP-62.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
63	7/28/2017

Description
Looking southwest at GP-63.

Photo No.	Date
64	7/28/2017

Description
Looking northwest at GP-64.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
65	7/28/2017

Description
Looking southwest at GP-65.

Photo No.	Date
66	7/28/2017

Description
GP-66 looking southwest.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
67	7/28/2017

Description
GP-67 looking west.

Photo No.	Date
68	7/28/2017

Description
GP-68 looking northeast.

Photographic Log

Client Name:	Site Location:	Project No.:
Wisconsin Department of Transportation (WisDOT)	Multiple sites along STH 50 (75th St) Kenosha, Kenosha County, Wisconsin	WisDOT ID: 1310-10-00 TRC #278962.0000.0000

Photo No.	Date
69	7/28/2017

Description
GP-69 looking east.

Photo No.	Date
70	7/28/2017

Description
GP-70 looking east.

Appendix D
Laboratory Analytical Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-131594-1
Client Project/Site: Multiple Sites along STH 50 - 278962

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
8/25/2017 9:59:17 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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QC Sample Results 26
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Case Narrative

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Job ID: 500-131594-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-131594-1

Comments
No additional comments.

Receipt
The samples were received on 7/25/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.2º C and 6.0º C.

GC VOA
Method(s) WI-GRO: Surrogate recovery was outside acceptance limits for the following matrix spike duplicate (MSD) sample: (500-131594-A-7-A MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Method(s) WI-GRO: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 490-447939 and analytical batch 490-449157 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) WI-GRO: The laboratory control sample duplicate (LCSD) for preparation batch 490-447939 and analytical batch 490-449157 recovered outside control limits for the following analytes: Benzene and Toluene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) WI-GRO: The continuing calibration verification (CCV) associated with batch 490-449157 recovered above the upper control limit for Benzene, Ethylbenzene, Methyl tert-butyl ether, Toluene and Xylenes, Total. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 490-449157/17) and (CCV 490-449157/3).

Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-450893 and analytical batch 490-452044.

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

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

Metals
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
Method(s) WI GRO: added methanol to provide 1:1 ratio. GP-02 (6-8) (500-131594-4), GP-03 (6-8) (500-131594-6), GP-04 (2-4) (500-131594-7), GP-05 (2-4) (500-131594-9), GP-08 (6-8) (500-131594-16), GP-09 (2-4) (500-131594-17), GP-10 (12-14) (500-131594-20), GP-13 (2-4) (500-131594-25) and GP-13 (6-8) (500-131594-26)

Method(s) WI GRO: initial weight less than 8.00 grams. GP-11 (2-4) (500-131594-21) and GP-12 (2-4) (500-131594-23)

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-01 (6-8) — Lab Sample ID: 500-131594-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.4		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-02 (6-8) — Lab Sample ID: 500-131594-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	150	J	290	140	ug/Kg	1	☼	WDNR	Total/NA
Lead	12		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-03 (2-4) — Lab Sample ID: 500-131594-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-03 (6-8) — Lab Sample ID: 500-131594-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	20	J	30	18	ug/Kg	1	☼	WDNR	Total/NA
Lead	11		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-04 (2-4) — Lab Sample ID: 500-131594-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-04 (6-8) — Lab Sample ID: 500-131594-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-05 (2-4) — Lab Sample ID: 500-131594-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	9.9		6.0	2.4	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	11		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-05 (6-8) — Lab Sample ID: 500-131594-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-08 (2-4) — Lab Sample ID: 500-131594-15

No Detections.

Client Sample ID: GP-08 (6-8) — Lab Sample ID: 500-131594-16

No Detections.

Client Sample ID: GP-09 (2-4) — Lab Sample ID: 500-131594-17

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-09 (6-8) — Lab Sample ID: 500-131594-18

No Detections.

Client Sample ID: GP-10 (2-4) — Lab Sample ID: 500-131594-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-10 (12-14) — Lab Sample ID: 500-131594-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	150	J	290	140	ug/Kg	1	☼	WDNR	Total/NA
Lead	10		0.49	0.22	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-11 (2-4) — Lab Sample ID: 500-131594-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	41		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-11 (14-15) — Lab Sample ID: 500-131594-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	300		250	120	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	38		25	15	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	64		25	15	ug/Kg	1	☼	WDNR	Total/NA
Lead	11		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-12 (2-4) — Lab Sample ID: 500-131594-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	42		0.57	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-12 (14-16) — Lab Sample ID: 500-131594-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	210	J	250	120	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	30		25	15	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	36		25	15	ug/Kg	1	☼	WDNR	Total/NA
Xylenes, Total	35	J	75	30	ug/Kg	1	☼	WDNR	Total/NA
Lead	10		0.49	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-13 (2-4) — Lab Sample ID: 500-131594-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.4		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-13 (6-8) — Lab Sample ID: 500-131594-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.4		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: TRIP BLANK **Lab Sample ID: 500-131594-28**

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH

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.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-131594-2	GP-01 (6-8)	Solid	07/24/17 08:20	07/25/17 08:50
500-131594-4	GP-02 (6-8)	Solid	07/24/17 08:50	07/25/17 08:50
500-131594-5	GP-03 (2-4)	Solid	07/24/17 09:05	07/25/17 08:50
500-131594-6	GP-03 (6-8)	Solid	07/24/17 09:10	07/25/17 08:50
500-131594-7	GP-04 (2-4)	Solid	07/24/17 09:30	07/25/17 08:50
500-131594-8	GP-04 (6-8)	Solid	07/24/17 09:35	07/25/17 08:50
500-131594-9	GP-05 (2-4)	Solid	07/24/17 09:50	07/25/17 08:50
500-131594-10	GP-05 (6-8)	Solid	07/24/17 09:55	07/25/17 08:50
500-131594-15	GP-08 (2-4)	Solid	07/24/17 10:50	07/25/17 08:50
500-131594-16	GP-08 (6-8)	Solid	07/24/17 10:55	07/25/17 08:50
500-131594-17	GP-09 (2-4)	Solid	07/24/17 11:10	07/25/17 08:50
500-131594-18	GP-09 (6-8)	Solid	07/24/17 11:15	07/25/17 08:50
500-131594-19	GP-10 (2-4)	Solid	07/24/17 11:55	07/25/17 08:50
500-131594-20	GP-10 (12-14)	Solid	07/24/17 12:20	07/25/17 08:50
500-131594-21	GP-11 (2-4)	Solid	07/24/17 13:05	07/25/17 08:50
500-131594-22	GP-11 (14-15)	Solid	07/24/17 13:30	07/25/17 08:50
500-131594-23	GP-12 (2-4)	Solid	07/24/17 14:10	07/25/17 08:50
500-131594-24	GP-12 (14-16)	Solid	07/24/17 14:25	07/25/17 08:50
500-131594-25	GP-13 (2-4)	Solid	07/24/17 14:50	07/25/17 08:50
500-131594-26	GP-13 (6-8)	Solid	07/24/17 14:55	07/25/17 08:50
500-131594-28	TRIP BLANK	Solid	07/24/17 00:00	07/25/17 08:50

Client Sample ID: GP-01 (6-8)

Lab Sample ID: 500-131594-2
Date Collected: 07/24/17 08:20
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
Ethylbenzene	<22		29	22	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
Naphthalene	<140		290	140	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
Toluene	<20		29	20	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1
Xylenes, Total	<35		88	35	ug/Kg	☼	08/08/17 09:07	08/11/17 21:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*93*		*80 - 120*	*08/08/17 09:07*	*08/11/17 21:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.4**		0.53	0.24	mg/Kg	☼	08/10/17 10:18	08/12/17 03:04	1

Client Sample ID: GP-02 (6-8)

Lab Sample ID: 500-131594-4
Date Collected: 07/24/17 08:50
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
Ethylbenzene	<22		29	22	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
Naphthalene	**150**	**J**	290	140	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
Toluene	<19		29	19	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1
Xylenes, Total	<34		86	34	ug/Kg	☼	08/02/17 10:15	08/06/17 18:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*103*		*80 - 120*	*08/02/17 10:15*	*08/06/17 18:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		0.55	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 22:38	1

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-131594-5
Date Collected: 07/24/17 09:05
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19	*	26	19	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1
Ethylbenzene	<20		26	20	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1
Naphthalene	<130		260	130	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1
Toluene	<18	*	26	18	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1

Client Sample ID: GP-03 (2-4) — Lab Sample ID: 500-131594-5

Date Collected: 07/24/17 09:05 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.6**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<32		79	32	ug/Kg	☼	07/26/17 13:58	07/31/17 18:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*115*		*80 - 120*	*07/26/17 13:58*	*07/31/17 18:36*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		0.49	0.23	mg/Kg	☼	07/28/17 10:17	07/28/17 17:11	1

Client Sample ID: GP-03 (6-8) — Lab Sample ID: 500-131594-6

Date Collected: 07/24/17 09:10 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 86.9**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22	*	30	22	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
Ethylbenzene	<23		30	23	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
Naphthalene	<140		300	140	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
Toluene	<20	*	30	20	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
1,2,4-Trimethylbenzene	**20**	**J**	30	18	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1
Xylenes, Total	<36		90	36	ug/Kg	☼	07/26/17 13:58	07/31/17 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*117*		*80 - 120*	*07/26/17 13:58*	*07/31/17 19:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		0.55	0.25	mg/Kg	☼	07/28/17 10:17	07/28/17 17:22	1

Client Sample ID: GP-04 (2-4) — Lab Sample ID: 500-131594-7

Date Collected: 07/24/17 09:30 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 84.5**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22	F1 *	30	22	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
Ethylbenzene	<23	F1	30	23	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
Naphthalene	<150		300	150	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
Toluene	<21	F1 *	30	21	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
1,3,5-Trimethylbenzene	<18	F1	30	18	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1
Xylenes, Total	<36		91	36	ug/Kg	☼	07/26/17 13:58	07/31/17 19:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*80 - 120*	*07/26/17 13:58*	*07/31/17 19:30*	*1*
a,a,a-Trifluorotoluene	*91*		*80 - 120*	*07/26/17 13:58*	*07/31/17 19:30*	*1*

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-131594-7
Date Collected: 07/24/17 09:30
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 84.5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15		0.50	0.23	mg/Kg	☼	07/28/17 10:17	07/28/17 17:26	1

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-131594-8
Date Collected: 07/24/17 09:35
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 88.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18	*	25	18	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
Ethylbenzene	<19		25	19	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
Naphthalene	<120		250	120	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
Toluene	<17	*	25	17	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1
Xylenes, Total	<30		75	30	ug/Kg	☼	07/26/17 13:58	07/31/17 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*80 - 120*	*07/26/17 13:58*	*07/31/17 19:57*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12		0.55	0.25	mg/Kg	☼	07/28/17 10:17	07/28/17 17:30	1

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-131594-9
Date Collected: 07/24/17 09:50
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 86.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Benzene	<21	*	30	21	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Ethylbenzene	<23		30	23	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Naphthalene	<140		300	140	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Toluene	<20	*	30	20	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Xylenes, Total	<36		89	36	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1
Wisconsin GRO	<3000		6000	3000	ug/Kg	☼	07/26/17 13:58	07/31/17 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*115*		*80 - 120*	*07/26/17 13:58*	*07/31/17 20:24*	*1*
a,a,a-Trifluorotoluene	*91*		*80 - 120*	*07/26/17 13:58*	*07/31/17 20:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	9.9		6.0	2.4	mg/Kg	☼	07/27/17 13:43	07/28/17 12:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*68*		*44 - 148*	*07/27/17 13:43*	*07/28/17 12:21*	*1*

Client Sample ID: GP-05 (2-4)
Lab Sample ID: 500-131594-9
Date Collected: 07/24/17 09:50 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 86.8**

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.50	0.23	mg/Kg	☼	07/28/17 10:17	07/28/17 17:34	1

Client Sample ID: GP-05 (6-8)
Lab Sample ID: 500-131594-10
Date Collected: 07/24/17 09:55 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 88.4**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19	*	26	19	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
Ethylbenzene	<20		26	20	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
Naphthalene	<130		260	130	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
Toluene	<18	*	26	18	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1
Xylenes, Total	<31		78	31	ug/Kg	☼	07/26/17 13:58	07/31/17 20:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*118*		*80 - 120*	*07/26/17 13:58*	*07/31/17 20:50*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.51	0.24	mg/Kg	☼	07/28/17 10:17	07/28/17 17:38	1

Client Sample ID: GP-08 (2-4)
Lab Sample ID: 500-131594-15
Date Collected: 07/24/17 10:50 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 91.8**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19	*	26	19	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
Ethylbenzene	<20		26	20	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
Naphthalene	<130		260	130	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
Toluene	<18	*	26	18	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1
Xylenes, Total	<31		79	31	ug/Kg	☼	07/26/17 13:58	07/31/17 21:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*120*		*80 - 120*	*07/26/17 13:58*	*07/31/17 21:17*	*1*

Client Sample ID: GP-08 (6-8)
Lab Sample ID: 500-131594-16
Date Collected: 07/24/17 10:55 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 79.6**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23	*	32	23	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1
Ethylbenzene	<24		32	24	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1

Client Sample ID: GP-08 (6-8) — Lab Sample ID: 500-131594-16

Date Collected: 07/24/17 10:55 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 79.6**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Naphthalene	<150		320	150	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1
Toluene	<21	*	32	21	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1
Xylenes, Total	<38		95	38	ug/Kg	☼	07/26/17 13:58	07/31/17 21:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*80 - 120*	*07/26/17 13:58*	*07/31/17 21:44*	*1*

Client Sample ID: GP-09 (2-4) — Lab Sample ID: 500-131594-17

Date Collected: 07/24/17 11:10 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.2**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Benzene	<21	*	29	21	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Ethylbenzene	<22		29	22	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Naphthalene	<140		290	140	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Toluene	<20	*	29	20	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Xylenes, Total	<35		88	35	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1
Wisconsin GRO	<2900		5900	2900	ug/Kg	☼	07/26/17 13:58	07/31/17 22:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*120*		*80 - 120*	*07/26/17 13:58*	*07/31/17 22:11*	*1*
a,a,a-Trifluorotoluene	*94*		*80 - 120*	*07/26/17 13:58*	*07/31/17 22:11*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<3.6		8.9	3.6	mg/Kg	☼	07/27/17 13:43	07/28/17 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*80*		*44 - 148*	*07/27/17 13:43*	*07/28/17 12:56*	*1*

Client Sample ID: GP-09 (6-8) — Lab Sample ID: 500-131594-18

Date Collected: 07/24/17 11:15 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 79.1**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21	*	29	21	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
Ethylbenzene	<22		29	22	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
Naphthalene	<140		290	140	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
Toluene	<20	*	29	20	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1
Xylenes, Total	<35		87	35	ug/Kg	☼	07/26/17 13:58	07/31/17 23:58	1

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-131594-18
Date Collected: 07/24/17 11:15 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 79.1**

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*07/26/17 13:58*	*07/31/17 23:58*	*1*

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-131594-19
Date Collected: 07/24/17 11:55 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 87.7**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Benzene	<19	*	26	19	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Ethylbenzene	<20		26	20	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Naphthalene	<130		260	130	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Toluene	<18	*	26	18	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Xylenes, Total	<31		79	31	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1
Wisconsin GRO	<2600		5200	2600	ug/Kg	☼	07/26/17 13:58	08/01/17 00:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*115*		*80 - 120*	*07/26/17 13:58*	*08/01/17 00:25*	*1*
a,a,a-Trifluorotoluene	*94*		*80 - 120*	*07/26/17 13:58*	*08/01/17 00:25*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.7		4.2	1.7	mg/Kg	☼	07/27/17 13:43	07/28/17 13:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	*79*		*44 - 148*	*07/27/17 13:43*	*07/28/17 13:32*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		0.51	0.24	mg/Kg	☼	07/28/17 10:17	07/28/17 17:42	1

Client Sample ID: GP-10 (12-14)

Lab Sample ID: 500-131594-20
Date Collected: 07/24/17 12:20 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 87.6**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21	*	29	21	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
Ethylbenzene	<22		29	22	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
Naphthalene	**150**	**J**	290	140	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
Toluene	<20	*	29	20	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1
Xylenes, Total	<35		88	35	ug/Kg	☼	07/26/17 13:58	08/01/17 00:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
a,a,a-Trifluorotoluene	*111*		*80 - 120*	*07/26/17 13:58*	*08/01/17 00:51*	*1*

Client Sample ID: GP-10 (12-14)

Lab Sample ID: 500-131594-20
Date Collected: 07/24/17 12:20
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.6

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.49	0.22	mg/Kg	☼	07/28/17 10:17	07/28/17 17:46	1

Client Sample ID: GP-11 (2-4)

Lab Sample ID: 500-131594-21
Date Collected: 07/24/17 13:05
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 82.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<34		47	34	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
Ethylbenzene	<36		47	36	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
Methyl tert-butyl ether	<23		47	23	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
Naphthalene	<230		470	230	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
Toluene	<32		47	32	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
1,2,4-Trimethylbenzene	<28		47	28	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
1,3,5-Trimethylbenzene	<28		47	28	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1
Xylenes, Total	<57		140	57	ug/Kg	☼	08/08/17 09:07	08/11/17 21:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*95*		*80 - 120*	*08/08/17 09:07*	*08/11/17 21:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**41**		0.54	0.25	mg/Kg	☼	08/10/17 10:18	08/12/17 03:08	1

Client Sample ID: GP-11 (14-15)

Lab Sample ID: 500-131594-22
Date Collected: 07/24/17 13:30
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
Ethylbenzene	<19		25	19	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
Naphthalene	**300**		250	120	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
Toluene	<17		25	17	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
1,2,4-Trimethylbenzene	**38**		25	15	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
1,3,5-Trimethylbenzene	**64**		25	15	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1
Xylenes, Total	<30		76	30	ug/Kg	☼	08/02/17 10:15	08/06/17 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*	*08/02/17 10:15*	*08/06/17 19:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		0.53	0.24	mg/Kg	☼	08/02/17 09:20	08/02/17 22:42	1

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-131594-23
Date Collected: 07/24/17 14:10
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 81.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<39	*	55	39	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
Ethylbenzene	<42		55	42	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
Methyl tert-butyl ether	<26		55	26	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
Naphthalene	<260		550	260	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
Toluene	<37	*	55	37	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
1,2,4-Trimethylbenzene	<33		55	33	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
1,3,5-Trimethylbenzene	<33		55	33	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1
Xylenes, Total	<66		160	66	ug/Kg	☼	07/26/17 13:58	08/01/17 01:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*80 - 120*	*07/26/17 13:58*	*08/01/17 01:18*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**42**		0.57	0.26	mg/Kg	☼	07/28/17 10:17	07/28/17 17:58	1

Client Sample ID: GP-12 (14-16)

Lab Sample ID: 500-131594-24
Date Collected: 07/24/17 14:25
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18	*	25	18	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
Ethylbenzene	<19		25	19	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
Naphthalene	**210**	**J**	250	120	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
Toluene	<17	*	25	17	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
1,2,4-Trimethylbenzene	**30**		25	15	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
1,3,5-Trimethylbenzene	**36**		25	15	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1
Xylenes, Total	**35**	**J**	75	30	ug/Kg	☼	07/26/17 13:58	08/01/17 01:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*80 - 120*	*07/26/17 13:58*	*08/01/17 01:45*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.49	0.23	mg/Kg	☼	07/28/17 10:17	07/28/17 18:10	1

Client Sample ID: GP-13 (2-4)

Lab Sample ID: 500-131594-25
Date Collected: 07/24/17 14:50
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 92.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
1,3,5-Trimethylbenzene	<16		26	16	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
Benzene	<19	*	26	19	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
Ethylbenzene	<20		26	20	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
Methyl tert-butyl ether	<13		26	13	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
Naphthalene	<130		260	130	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
Toluene	<18	*	26	18	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1

Client Sample ID: GP-13 (2-4)
Lab Sample ID: 500-131594-25
Date Collected: 07/24/17 14:50 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 92.7**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<32		79	32	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1
Wisconsin GRO	<2600		5300	2600	ug/Kg	☼	07/26/17 13:58	08/01/17 02:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*07/26/17 13:58*	*08/01/17 02:12*	*1*
a,a,a-Trifluorotoluene	*91*		*80 - 120*	*07/26/17 13:58*	*08/01/17 02:12*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<2.2		5.5	2.2	mg/Kg	☼	07/27/17 13:43	07/28/17 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*83*		*44 - 148*	*07/27/17 13:43*	*07/28/17 14:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**6.4**		0.50	0.23	mg/Kg	☼	07/28/17 10:17	07/28/17 18:14	1

Client Sample ID: GP-13 (6-8)
Lab Sample ID: 500-131594-26
Date Collected: 07/24/17 14:55 **Matrix: Solid**
Date Received: 07/25/17 08:50 **Percent Solids: 90.2**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19	*	27	19	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
Ethylbenzene	<21		27	21	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
Naphthalene	<130		270	130	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
Toluene	<18	*	27	18	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1
Xylenes, Total	<32		81	32	ug/Kg	☼	07/26/17 13:58	08/01/17 02:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*07/26/17 13:58*	*08/01/17 02:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**3.4**		0.51	0.23	mg/Kg	☼	07/28/17 10:17	07/28/17 18:18	1

Client Sample ID: TRIP BLANK
Lab Sample ID: 500-131594-28
Date Collected: 07/24/17 00:00 **Matrix: Solid**
Date Received: 07/25/17 08:50

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18	*	25	18	ug/Kg		07/26/17 13:58	07/31/17 18:10	1
Ethylbenzene	<19		25	19	ug/Kg		07/26/17 13:58	07/31/17 18:10	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		07/26/17 13:58	07/31/17 18:10	1
Naphthalene	<120		250	120	ug/Kg		07/26/17 13:58	07/31/17 18:10	1
Toluene	<17	*	25	17	ug/Kg		07/26/17 13:58	07/31/17 18:10	1

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: TRIP BLANK
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-28
Matrix: Solid

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		07/26/17 13:58	07/31/17 18:10	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		07/26/17 13:58	07/31/17 18:10	1
Xylenes, Total	<30		75	30	ug/Kg		07/26/17 13:58	07/31/17 18:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*116*		*80 - 120*	*07/26/17 13:58*	*07/31/17 18:10*	*1*

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance 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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

GC VOA

Prep Batch: 447939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-5	GP-03 (2-4)	Total/NA	Solid	WI GRO	
500-131594-6	GP-03 (6-8)	Total/NA	Solid	WI GRO	
500-131594-7	GP-04 (2-4)	Total/NA	Solid	WI GRO	
500-131594-8	GP-04 (6-8)	Total/NA	Solid	WI GRO	
500-131594-9	GP-05 (2-4)	Total/NA	Solid	WI GRO	
500-131594-10	GP-05 (6-8)	Total/NA	Solid	WI GRO	
500-131594-15	GP-08 (2-4)	Total/NA	Solid	WI GRO	
500-131594-16	GP-08 (6-8)	Total/NA	Solid	WI GRO	
500-131594-17	GP-09 (2-4)	Total/NA	Solid	WI GRO	
500-131594-18	GP-09 (6-8)	Total/NA	Solid	WI GRO	
500-131594-19	GP-10 (2-4)	Total/NA	Solid	WI GRO	
500-131594-20	GP-10 (12-14)	Total/NA	Solid	WI GRO	
500-131594-23	GP-12 (2-4)	Total/NA	Solid	WI GRO	
500-131594-24	GP-12 (14-16)	Total/NA	Solid	WI GRO	
500-131594-25	GP-13 (2-4)	Total/NA	Solid	WI GRO	
500-131594-26	GP-13 (6-8)	Total/NA	Solid	WI GRO	
500-131594-28	TRIP BLANK	Total/NA	Solid	WI GRO	
MB 490-447939/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-447939/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-447939/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	
500-131594-7 MS	GP-04 (2-4)	Total/NA	Solid	WI GRO	
500-131594-7 MSD	GP-04 (2-4)	Total/NA	Solid	WI GRO	

Analysis Batch: 449157

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-5	GP-03 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-6	GP-03 (6-8)	Total/NA	Solid	WDNR	447939
500-131594-7	GP-04 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-8	GP-04 (6-8)	Total/NA	Solid	WDNR	447939
500-131594-9	GP-05 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-10	GP-05 (6-8)	Total/NA	Solid	WDNR	447939
500-131594-15	GP-08 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-16	GP-08 (6-8)	Total/NA	Solid	WDNR	447939
500-131594-17	GP-09 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-18	GP-09 (6-8)	Total/NA	Solid	WDNR	447939
500-131594-19	GP-10 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-20	GP-10 (12-14)	Total/NA	Solid	WDNR	447939
500-131594-23	GP-12 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-24	GP-12 (14-16)	Total/NA	Solid	WDNR	447939
500-131594-25	GP-13 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-26	GP-13 (6-8)	Total/NA	Solid	WDNR	447939
500-131594-28	TRIP BLANK	Total/NA	Solid	WDNR	447939
MB 490-447939/1-A	Method Blank	Total/NA	Solid	WDNR	447939
LCS 490-447939/2-A	Lab Control Sample	Total/NA	Solid	WDNR	447939
LCSD 490-447939/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	447939
500-131594-7 MS	GP-04 (2-4)	Total/NA	Solid	WDNR	447939
500-131594-7 MSD	GP-04 (2-4)	Total/NA	Solid	WDNR	447939

Prep Batch: 449680

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-4	GP-02 (6-8)	Total/NA	Solid	WI GRO	

GC VOA (Continued)

Prep Batch: 449680 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-22	GP-11 (14-15)	Total/NA	Solid	WI GRO	
MB 490-449680/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-449680/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-449680/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 450577

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-4	GP-02 (6-8)	Total/NA	Solid	WDNR	449680
500-131594-22	GP-11 (14-15)	Total/NA	Solid	WDNR	449680
MB 490-449680/1-A	Method Blank	Total/NA	Solid	WDNR	449680
LCS 490-449680/2-A	Lab Control Sample	Total/NA	Solid	WDNR	449680
LCSD 490-449680/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	449680

Prep Batch: 450893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-2	GP-01 (6-8)	Total/NA	Solid	WI GRO	
500-131594-21	GP-11 (2-4)	Total/NA	Solid	WI GRO	
MB 490-450893/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-450893/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-450893/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 452044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-2	GP-01 (6-8)	Total/NA	Solid	WDNR	450893
500-131594-21	GP-11 (2-4)	Total/NA	Solid	WDNR	450893
MB 490-450893/1-A	Method Blank	Total/NA	Solid	WDNR	450893
LCS 490-450893/2-A	Lab Control Sample	Total/NA	Solid	WDNR	450893
LCSD 490-450893/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	450893

GC Semi VOA

Prep Batch: 394820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-9	GP-05 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131594-17	GP-09 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131594-19	GP-10 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131594-25	GP-13 (2-4)	Total/NA	Solid	WI DRO PREP	
MB 500-394820/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-394820/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-394820/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 394960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-9	GP-05 (2-4)	Total/NA	Solid	WI-DRO	394820
500-131594-17	GP-09 (2-4)	Total/NA	Solid	WI-DRO	394820
500-131594-19	GP-10 (2-4)	Total/NA	Solid	WI-DRO	394820
500-131594-25	GP-13 (2-4)	Total/NA	Solid	WI-DRO	394820
MB 500-394820/1-A	Method Blank	Total/NA	Solid	WI-DRO	394820
LCS 500-394820/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	394820
LCSD 500-394820/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	394820

Metals

Prep Batch: 394984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-5	GP-03 (2-4)	Total/NA	Solid	3050B	
500-131594-6	GP-03 (6-8)	Total/NA	Solid	3050B	
500-131594-7	GP-04 (2-4)	Total/NA	Solid	3050B	
500-131594-8	GP-04 (6-8)	Total/NA	Solid	3050B	
500-131594-9	GP-05 (2-4)	Total/NA	Solid	3050B	
500-131594-10	GP-05 (6-8)	Total/NA	Solid	3050B	
500-131594-19	GP-10 (2-4)	Total/NA	Solid	3050B	
500-131594-20	GP-10 (12-14)	Total/NA	Solid	3050B	
500-131594-23	GP-12 (2-4)	Total/NA	Solid	3050B	
500-131594-24	GP-12 (14-16)	Total/NA	Solid	3050B	
500-131594-25	GP-13 (2-4)	Total/NA	Solid	3050B	
500-131594-26	GP-13 (6-8)	Total/NA	Solid	3050B	
MB 500-394984/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-394984/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 395090

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-5	GP-03 (2-4)	Total/NA	Solid	6010B	394984
500-131594-6	GP-03 (6-8)	Total/NA	Solid	6010B	394984
500-131594-7	GP-04 (2-4)	Total/NA	Solid	6010B	394984
500-131594-8	GP-04 (6-8)	Total/NA	Solid	6010B	394984
500-131594-9	GP-05 (2-4)	Total/NA	Solid	6010B	394984
500-131594-10	GP-05 (6-8)	Total/NA	Solid	6010B	394984
500-131594-19	GP-10 (2-4)	Total/NA	Solid	6010B	394984
500-131594-20	GP-10 (12-14)	Total/NA	Solid	6010B	394984
500-131594-23	GP-12 (2-4)	Total/NA	Solid	6010B	394984
500-131594-24	GP-12 (14-16)	Total/NA	Solid	6010B	394984
500-131594-25	GP-13 (2-4)	Total/NA	Solid	6010B	394984
500-131594-26	GP-13 (6-8)	Total/NA	Solid	6010B	394984
MB 500-394984/1-A	Method Blank	Total/NA	Solid	6010B	394984
LCS 500-394984/2-A	Lab Control Sample	Total/NA	Solid	6010B	394984

Prep Batch: 395579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-4	GP-02 (6-8)	Total/NA	Solid	3050B	
500-131594-22	GP-11 (14-15)	Total/NA	Solid	3050B	
MB 500-395579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-395579/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 395729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-4	GP-02 (6-8)	Total/NA	Solid	6010B	395579
500-131594-22	GP-11 (14-15)	Total/NA	Solid	6010B	395579
MB 500-395579/1-A	Method Blank	Total/NA	Solid	6010B	395579
LCS 500-395579/2-A	Lab Control Sample	Total/NA	Solid	6010B	395579

Prep Batch: 396847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-2	GP-01 (6-8)	Total/NA	Solid	3050B	
500-131594-21	GP-11 (2-4)	Total/NA	Solid	3050B	
MB 500-396847/1-A	Method Blank	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 396847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-396847/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 397129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-2	GP-01 (6-8)	Total/NA	Solid	6010B	396847
500-131594-21	GP-11 (2-4)	Total/NA	Solid	6010B	396847
MB 500-396847/1-A	Method Blank	Total/NA	Solid	6010B	396847
LCS 500-396847/2-A	Lab Control Sample	Total/NA	Solid	6010B	396847

General Chemistry

Analysis Batch: 394654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-5	GP-03 (2-4)	Total/NA	Solid	Moisture	
500-131594-6	GP-03 (6-8)	Total/NA	Solid	Moisture	
500-131594-7	GP-04 (2-4)	Total/NA	Solid	Moisture	
500-131594-8	GP-04 (6-8)	Total/NA	Solid	Moisture	
500-131594-9	GP-05 (2-4)	Total/NA	Solid	Moisture	
500-131594-10	GP-05 (6-8)	Total/NA	Solid	Moisture	
500-131594-17	GP-09 (2-4)	Total/NA	Solid	Moisture	
500-131594-19	GP-10 (2-4)	Total/NA	Solid	Moisture	
500-131594-20	GP-10 (12-14)	Total/NA	Solid	Moisture	
500-131594-23	GP-12 (2-4)	Total/NA	Solid	Moisture	
500-131594-24	GP-12 (14-16)	Total/NA	Solid	Moisture	
500-131594-25	GP-13 (2-4)	Total/NA	Solid	Moisture	
500-131594-26	GP-13 (6-8)	Total/NA	Solid	Moisture	

Analysis Batch: 395756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-4	GP-02 (6-8)	Total/NA	Solid	Moisture	
500-131594-22	GP-11 (14-15)	Total/NA	Solid	Moisture	

Analysis Batch: 396449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-2	GP-01 (6-8)	Total/NA	Solid	Moisture	
500-131594-21	GP-11 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 447904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131594-15	GP-08 (2-4)	Total/NA	Solid	Moisture	
500-131594-16	GP-08 (6-8)	Total/NA	Solid	Moisture	
500-131594-18	GP-09 (6-8)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT (80-120)	TFT (80-120)
500-131594-2	GP-01 (6-8)	93	93
500-131594-4	GP-02 (6-8)	103	103
500-131594-5	GP-03 (2-4)	115	115
500-131594-6	GP-03 (6-8)	117	117
500-131594-7	GP-04 (2-4)	114	114
500-131594-7 MS	GP-04 (2-4)	114	114
500-131594-7 MSD	GP-04 (2-4)	121 X	121 X
500-131594-8	GP-04 (6-8)	116	116
500-131594-9	GP-05 (2-4)	115	115
500-131594-10	GP-05 (6-8)	118	118
500-131594-15	GP-08 (2-4)	120	120
500-131594-16	GP-08 (6-8)	116	116
500-131594-17	GP-09 (2-4)	120	120
500-131594-18	GP-09 (6-8)	112	112
500-131594-19	GP-10 (2-4)	115	115
500-131594-20	GP-10 (12-14)	111	111
500-131594-21	GP-11 (2-4)	95	95
500-131594-22	GP-11 (14-15)	101	101
500-131594-23	GP-12 (2-4)	114	114
500-131594-24	GP-12 (14-16)	113	113
500-131594-25	GP-13 (2-4)	112	112
500-131594-26	GP-13 (6-8)	112	112
500-131594-28	TRIP BLANK	116	116
LCS 490-447939/2-A	Lab Control Sample	111	111
LCS 490-449680/2-A	Lab Control Sample	100	100
LCS 490-450893/2-A	Lab Control Sample	90	90
LCSD 490-447939/3-A	Lab Control Sample Dup	114	114
LCSD 490-449680/3-A	Lab Control Sample Dup	100	100
LCSD 490-450893/3-A	Lab Control Sample Dup	95	95
MB 490-447939/1-A	Method Blank	115	115
MB 490-449680/1-A	Method Blank	101	101
MB 490-450893/1-A	Method Blank	90	90

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (44-148)
500-131594-9	GP-05 (2-4)	68
500-131594-17	GP-09 (2-4)	80
500-131594-19	GP-10 (2-4)	79
500-131594-25	GP-13 (2-4)	83
LCS 500-394820/2-A	Lab Control Sample	86
LCSD 500-394820/3-A	Lab Control Sample Dup	86
MB 500-394820/1-A	Method Blank	80

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Surrogate Legend

C9 = n-Nonane

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-447939/1-A
Matrix: Solid
Analysis Batch: 449157

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447939

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
Ethylbenzene	<19		25	19	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
Naphthalene	<120		250	120	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
Toluene	<17		25	17	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
Xylenes, Total	<30		75	30	ug/Kg		07/26/17 13:58	07/31/17 17:43	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		07/26/17 13:58	07/31/17 17:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*115*		*80 - 120*	*07/26/17 13:58*	*07/31/17 17:43*	*1*
a,a,a-Trifluorotoluene	*96*		*80 - 120*	*07/26/17 13:58*	*07/31/17 17:43*	*1*

Lab Sample ID: LCS 490-447939/2-A
Matrix: Solid
Analysis Batch: 449157

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447939

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5840		ug/Kg		117	76 - 120
Ethylbenzene	5000	5760		ug/Kg		115	77 - 120
Methyl tert-butyl ether	5000	5870		ug/Kg		117	73 - 120
1,2,4-Trimethylbenzene	5000	5390		ug/Kg		108	60 - 140
Naphthalene	5000	5130		ug/Kg		103	74 - 127
1,3,5-Trimethylbenzene	5000	5590		ug/Kg		112	74 - 133
Toluene	5000	5920		ug/Kg		118	79 - 120
Wisconsin GRO	50000	49100		ug/Kg		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*111*		*80 - 120*
a,a,a-Trifluorotoluene	*92*		*80 - 120*

Lab Sample ID: LCSD 490-447939/3-A
Matrix: Solid
Analysis Batch: 449157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 447939

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	6030	*	ug/Kg		121	76 - 120	3	27
Ethylbenzene	5000	5970		ug/Kg		119	77 - 120	4	49
Methyl tert-butyl ether	5000	5950		ug/Kg		119	73 - 120	1	31
1,2,4-Trimethylbenzene	5000	5470		ug/Kg		109	60 - 140	2	50
Naphthalene	5000	5050		ug/Kg		101	74 - 127	2	50
1,3,5-Trimethylbenzene	5000	5700		ug/Kg		114	74 - 133	2	42
Toluene	5000	6090	*	ug/Kg		122	79 - 120	3	37
Wisconsin GRO	50000	50600		ug/Kg		101	80 - 120	3	20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-447939/3-A
Matrix: Solid
Analysis Batch: 449157

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 447939

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*114*		*80 - 120*
a,a,a-Trifluorotoluene	*95*		*80 - 120*

Lab Sample ID: 500-131594-7 MS
Matrix: Solid
Analysis Batch: 449157

Client Sample ID: GP-04 (2-4)
Prep Type: Total/NA
Prep Batch: 447939

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<22	F1 *	3030	4350	F1	ug/Kg	☼	143	36 - 131
Ethylbenzene	<23	F1	3030	4470	F1	ug/Kg	☼	147	10 - 141
Methyl tert-butyl ether	<15		3030	4220		ug/Kg	☼	139	26 - 145
1,2,4-Trimethylbenzene	<18		3030	4110		ug/Kg	☼	136	13 - 156
Naphthalene	<150		3030	3580		ug/Kg	☼	118	10 - 151
1,3,5-Trimethylbenzene	<18	F1	3030	4290	F1	ug/Kg	☼	142	23 - 135
Toluene	<21	F1 *	3030	4480	F1	ug/Kg	☼	148	20 - 143
Wisconsin GRO	<3000		30300	36600		ug/Kg	☼	121	63 - 134

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*114*		*80 - 120*
a,a,a-Trifluorotoluene	*91*		*80 - 120*

Lab Sample ID: 500-131594-7 MSD
Matrix: Solid
Analysis Batch: 449157

Client Sample ID: GP-04 (2-4)
Prep Type: Total/NA
Prep Batch: 447939

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<22	F1 *	3030	4270	F1	ug/Kg	☼	141	36 - 131	2	27
Ethylbenzene	<23	F1	3030	4330	F1	ug/Kg	☼	143	10 - 141	3	49
Methyl tert-butyl ether	<15		3030	4050		ug/Kg	☼	133	26 - 145	4	31
1,2,4-Trimethylbenzene	<18		3030	4020		ug/Kg	☼	133	13 - 156	2	50
Naphthalene	<150		3030	3650		ug/Kg	☼	120	10 - 151	2	50
1,3,5-Trimethylbenzene	<18	F1	3030	4200	F1	ug/Kg	☼	139	23 - 135	2	42
Toluene	<21	F1 *	3030	4390	F1	ug/Kg	☼	145	20 - 143	2	37
Wisconsin GRO	<3000		30300	36000		ug/Kg	☼	119	63 - 134	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*121*	*X*	*80 - 120*
a,a,a-Trifluorotoluene	*97*		*80 - 120*

Lab Sample ID: MB 490-449680/1-A
Matrix: Solid
Analysis Batch: 450577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		08/02/17 10:14	08/06/17 16:45	1
Ethylbenzene	<19		25	19	ug/Kg		08/02/17 10:14	08/06/17 16:45	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		08/02/17 10:14	08/06/17 16:45	1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 490-449680/1-A
Matrix: Solid
Analysis Batch: 450577

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449680

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		08/02/17 10:14	08/06/17 16:45	1
Naphthalene	<120		250	120	ug/Kg		08/02/17 10:14	08/06/17 16:45	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		08/02/17 10:14	08/06/17 16:45	1
Toluene	<17		25	17	ug/Kg		08/02/17 10:14	08/06/17 16:45	1
Xylenes, Total	<30		75	30	ug/Kg		08/02/17 10:14	08/06/17 16:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*	*08/02/17 10:14*	*08/06/17 16:45*	*1*

Lab Sample ID: LCS 490-449680/2-A
Matrix: Solid
Analysis Batch: 450577

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449680

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5140		ug/Kg		103	76 - 120
Ethylbenzene	5000	5190		ug/Kg		104	77 - 120
Methyl tert-butyl ether	5000	5040		ug/Kg		101	73 - 120
1,2,4-Trimethylbenzene	5000	4890		ug/Kg		98	60 - 140
Naphthalene	5000	4560		ug/Kg		91	74 - 127
1,3,5-Trimethylbenzene	5000	5040		ug/Kg		101	74 - 133
Toluene	5000	5240		ug/Kg		105	79 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*80 - 120*

Lab Sample ID: LCSD 490-449680/3-A
Matrix: Solid
Analysis Batch: 450577

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449680

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	5180		ug/Kg		104	76 - 120	1	27
Ethylbenzene	5000	5170		ug/Kg		103	77 - 120	0	49
Methyl tert-butyl ether	5000	5070		ug/Kg		101	73 - 120	1	31
1,2,4-Trimethylbenzene	5000	4770		ug/Kg		95	60 - 140	3	50
Naphthalene	5000	4110		ug/Kg		82	74 - 127	10	50
1,3,5-Trimethylbenzene	5000	4930		ug/Kg		99	74 - 133	2	42
Toluene	5000	5250		ug/Kg		105	79 - 120	0	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*80 - 120*

Lab Sample ID: MB 490-450893/1-A
Matrix: Solid
Analysis Batch: 452044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		08/08/17 09:06	08/11/17 14:51	1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: MB 490-450893/1-A
Matrix: Solid
Analysis Batch: 452044

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450893

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<19		25	19	ug/Kg		08/08/17 09:06	08/11/17 14:51	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		08/08/17 09:06	08/11/17 14:51	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		08/08/17 09:06	08/11/17 14:51	1
Naphthalene	<120		250	120	ug/Kg		08/08/17 09:06	08/11/17 14:51	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		08/08/17 09:06	08/11/17 14:51	1
Toluene	<17		25	17	ug/Kg		08/08/17 09:06	08/11/17 14:51	1
Xylenes, Total	<30		75	30	ug/Kg		08/08/17 09:06	08/11/17 14:51	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*90*		*80 - 120*	*08/08/17 09:06*	*08/11/17 14:51*	*1*

Lab Sample ID: LCS 490-450893/2-A
Matrix: Solid
Analysis Batch: 452044

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450893

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	4800		ug/Kg		96	76 - 120
Ethylbenzene	5000	4940		ug/Kg		99	77 - 120
Methyl tert-butyl ether	5000	4720		ug/Kg		94	73 - 120
1,2,4-Trimethylbenzene	5000	4720		ug/Kg		94	60 - 140
Naphthalene	5000	4170		ug/Kg		83	74 - 127
1,3,5-Trimethylbenzene	5000	4870		ug/Kg		97	74 - 133
Toluene	5000	5020		ug/Kg		100	79 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*90*		*80 - 120*

Lab Sample ID: LCSD 490-450893/3-A
Matrix: Solid
Analysis Batch: 452044

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 450893

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	5110		ug/Kg		102	76 - 120	6	27
Ethylbenzene	5000	5190		ug/Kg		104	77 - 120	5	49
Methyl tert-butyl ether	5000	5200		ug/Kg		104	73 - 120	10	31
1,2,4-Trimethylbenzene	5000	4840		ug/Kg		97	60 - 140	3	50
Naphthalene	5000	4380		ug/Kg		88	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	5050		ug/Kg		101	74 - 133	4	42
Toluene	5000	5300		ug/Kg		106	79 - 120	5	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*95*		*80 - 120*

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

Lab Sample ID: MB 500-394820/1-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		07/27/17 13:43	07/28/17 11:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*80*		*44 - 148*	*07/27/17 13:43*	*07/28/17 11:11*	*1*

Lab Sample ID: LCS 500-394820/2-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394820

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			20.0	18.6		mg/Kg		93	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*86*		*44 - 148*

Lab Sample ID: LCSD 500-394820/3-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 394820

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	19.9		mg/Kg		100	70 - 120	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*86*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-394984/1-A
Matrix: Solid
Analysis Batch: 395090

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394984

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		07/28/17 10:17	07/28/17 16:50	1

Lab Sample ID: LCS 500-394984/2-A
Matrix: Solid
Analysis Batch: 395090

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394984

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			10.0	9.54		mg/Kg		95	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-395579/1-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		08/02/17 09:20	08/02/17 20:50	1

Lab Sample ID: LCS 500-395579/2-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.21		mg/Kg		92	80 - 120

Lab Sample ID: MB 500-396847/1-A
Matrix: Solid
Analysis Batch: 397129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 396847

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		08/10/17 10:18	08/12/17 02:53	1

Lab Sample ID: LCS 500-396847/2-A
Matrix: Solid
Analysis Batch: 397129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 396847

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.25		mg/Kg		93	80 - 120

Client Sample ID: GP-01 (6-8) — **Lab Sample ID: 500-131594-2**
Date Collected: 07/24/17 08:20 — **Matrix: Solid**
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	396449	08/08/17 12:20	LWN	TAL CHI

Client Sample ID: GP-01 (6-8) — **Lab Sample ID: 500-131594-2**
Date Collected: 07/24/17 08:20 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			450893	08/08/17 09:07	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	452044	08/11/17 21:07	S1S	TAL NSH
Total/NA	Prep	3050B			396847	08/10/17 10:18	BDE	TAL CHI
Total/NA	Analysis	6010B		1	397129	08/12/17 03:04	KML	TAL CHI

Client Sample ID: GP-02 (6-8) — **Lab Sample ID: 500-131594-4**
Date Collected: 07/24/17 08:50 — **Matrix: Solid**
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395756	08/03/17 09:48	LWN	TAL CHI

Client Sample ID: GP-02 (6-8) — **Lab Sample ID: 500-131594-4**
Date Collected: 07/24/17 08:50 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449680	08/02/17 10:15	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450577	08/06/17 18:32	AK1	TAL NSH
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:38	PJ1	TAL CHI

Client Sample ID: GP-03 (2-4) — **Lab Sample ID: 500-131594-5**
Date Collected: 07/24/17 09:05 — **Matrix: Solid**
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-03 (2-4) — **Lab Sample ID: 500-131594-5**
Date Collected: 07/24/17 09:05 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-03 (2-4)

Lab Sample ID: 500-131594-5
Date Collected: 07/24/17 09:05
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	449157	07/31/17 18:36	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:11	KML	TAL CHI

Client Sample ID: GP-03 (6-8)

Lab Sample ID: 500-131594-6
Date Collected: 07/24/17 09:10
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-03 (6-8)

Lab Sample ID: 500-131594-6
Date Collected: 07/24/17 09:10
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 19:03	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:22	KML	TAL CHI

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-131594-7
Date Collected: 07/24/17 09:30
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-04 (2-4)

Lab Sample ID: 500-131594-7
Date Collected: 07/24/17 09:30
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 84.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 19:30	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:26	KML	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-131594-8
Date Collected: 07/24/17 09:35
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-04 (6-8)

Lab Sample ID: 500-131594-8
Date Collected: 07/24/17 09:35
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 88.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 19:57	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:30	KML	TAL CHI

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-131594-9
Date Collected: 07/24/17 09:50
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-05 (2-4)

Lab Sample ID: 500-131594-9
Date Collected: 07/24/17 09:50
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 20:24	S1S	TAL NSH
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 12:21	SAW	TAL CHI
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:34	KML	TAL CHI

Client Sample ID: GP-05 (6-8)

Lab Sample ID: 500-131594-10
Date Collected: 07/24/17 09:55
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-05 (6-8)

Date Collected: 07/24/17 09:55
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-10
Matrix: Solid
Percent Solids: 88.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 20:50	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:38	KML	TAL CHI

Client Sample ID: GP-08 (2-4)

Date Collected: 07/24/17 10:50
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	447904	07/26/17 12:06	BAA	TAL NSH

Client Sample ID: GP-08 (2-4)

Date Collected: 07/24/17 10:50
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-15
Matrix: Solid
Percent Solids: 91.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 21:17	S1S	TAL NSH

Client Sample ID: GP-08 (6-8)

Date Collected: 07/24/17 10:55
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	447904	07/26/17 12:06	BAA	TAL NSH

Client Sample ID: GP-08 (6-8)

Date Collected: 07/24/17 10:55
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-16
Matrix: Solid
Percent Solids: 79.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 21:44	S1S	TAL NSH

Client Sample ID: GP-09 (2-4)

Date Collected: 07/24/17 11:10
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-09 (2-4)

Lab Sample ID: 500-131594-17
Date Collected: 07/24/17 11:10
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 22:11	S1S	TAL NSH
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 12:56	SAW	TAL CHI

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-131594-18
Date Collected: 07/24/17 11:15
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	447904	07/26/17 12:06	BAA	TAL NSH

Client Sample ID: GP-09 (6-8)

Lab Sample ID: 500-131594-18
Date Collected: 07/24/17 11:15
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 23:58	S1S	TAL NSH

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-131594-19
Date Collected: 07/24/17 11:55
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-10 (2-4)

Lab Sample ID: 500-131594-19
Date Collected: 07/24/17 11:55
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	08/01/17 00:25	S1S	TAL NSH
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 13:32	SAW	TAL CHI
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:42	KML	TAL CHI

Client Sample ID: GP-10 (12-14) — **Lab Sample ID: 500-131594-20**
Date Collected: 07/24/17 12:20 — **Matrix: Solid**
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-10 (12-14) — **Lab Sample ID: 500-131594-20**
Date Collected: 07/24/17 12:20 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.6**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	08/01/17 00:51	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:46	KML	TAL CHI

Client Sample ID: GP-11 (2-4) — **Lab Sample ID: 500-131594-21**
Date Collected: 07/24/17 13:05 — **Matrix: Solid**
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	396449	08/08/17 12:20	LWN	TAL CHI

Client Sample ID: GP-11 (2-4) — **Lab Sample ID: 500-131594-21**
Date Collected: 07/24/17 13:05 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 82.1**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			450893	08/08/17 09:07	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	452044	08/11/17 21:34	S1S	TAL NSH
Total/NA	Prep	3050B			396847	08/10/17 10:18	BDE	TAL CHI
Total/NA	Analysis	6010B		1	397129	08/12/17 03:08	KML	TAL CHI

Client Sample ID: GP-11 (14-15) — **Lab Sample ID: 500-131594-22**
Date Collected: 07/24/17 13:30 — **Matrix: Solid**
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395756	08/03/17 09:48	LWN	TAL CHI

Client Sample ID: GP-11 (14-15) — **Lab Sample ID: 500-131594-22**
Date Collected: 07/24/17 13:30 — **Matrix: Solid**
Date Received: 07/25/17 08:50 — **Percent Solids: 87.7**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449680	08/02/17 10:15	JLP	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-11 (14-15)

Lab Sample ID: 500-131594-22
Date Collected: 07/24/17 13:30
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	450577	08/06/17 19:26	AK1	TAL NSH
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:42	PJ1	TAL CHI

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-131594-23
Date Collected: 07/24/17 14:10
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-12 (2-4)

Lab Sample ID: 500-131594-23
Date Collected: 07/24/17 14:10
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 81.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	08/01/17 01:18	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 17:58	KML	TAL CHI

Client Sample ID: GP-12 (14-16)

Lab Sample ID: 500-131594-24
Date Collected: 07/24/17 14:25
Matrix: Solid
Date Received: 07/25/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-12 (14-16)

Lab Sample ID: 500-131594-24
Date Collected: 07/24/17 14:25
Matrix: Solid
Date Received: 07/25/17 08:50
Percent Solids: 87.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	08/01/17 01:45	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 18:10	KML	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites along STH 50 - 278962

TestAmerica Job ID: 500-131594-1

Client Sample ID: GP-13 (2-4)
Date Collected: 07/24/17 14:50
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-25
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-13 (2-4)
Date Collected: 07/24/17 14:50
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-25
Matrix: Solid
Percent Solids: 92.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	08/01/17 02:12	S1S	TAL NSH
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 14:07	SAW	TAL CHI
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 18:14	KML	TAL CHI

Client Sample ID: GP-13 (6-8)
Date Collected: 07/24/17 14:55
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394654	07/26/17 17:10	BDE	TAL CHI

Client Sample ID: GP-13 (6-8)
Date Collected: 07/24/17 14:55
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-26
Matrix: Solid
Percent Solids: 90.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	08/01/17 02:39	S1S	TAL NSH
Total/NA	Prep	3050B			394984	07/28/17 10:17	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395090	07/28/17 18:18	KML	TAL CHI

Client Sample ID: TRIP BLANK
Date Collected: 07/24/17 00:00
Date Received: 07/25/17 08:50

Lab Sample ID: 500-131594-28
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			447939	07/26/17 13:58	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449157	07/31/17 18:10	S1S	TAL NSH

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 500-131594-1
Project/Site: Multiple Sites along STH 50 - 278962

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17 *

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17 *
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-17 *
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-17 *
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

500-131594 COC

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131594

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 0.4 | 1.2

Client	Client Project #
TRC	27-8962
Project Name	**Lab Project #**
Multiple sites along STH 50	
Project Location/State	**Lab PM**
Kenosha, WI	
Sampler	
M. Kendrick	

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: RSK's 2 day	Lead	GRO	DRO					Comments
								1	8	1	8					
1		GP-01 (2-4)	7/24	815	3	S		X	X							Hold Sample
2		GP-01 (6-8)		820				X	X							Hold Sample
3		GP-02 (2-4)		845				X	X							Hold Sample
4		GP-02 (6-8)		850				X	X							Hold Sample
5		GP-03 (2-4)		905				X	X							
6		GP-03 (6-8)		910				X	X							
7		GP-04 (2-4)		930				X	X							
8		GP-04 (6-8)		935				X	X							
9		GP-05 (2-4)		950	4			X	X	X	X					
10		GP-05 (6-8)		955	3			X	X							

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/24/17	1630	[signature]	TA	7-25-17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131594
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler:

Client: TRC
Client Project #: 278962
Project Name: Multiple sites along STH 50
Project Location/State: Kenosha, WI
Lab Project #:
Sampler: M. Kemkes
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	1	8	1	8					Comments
							Parameter	RVOCs, NAPH	Lead	GRO	DRO					
11		GP-06 (2-4)	7/24	1010	3	S		X	X							HOLD SAMPLE
12		GP-06 (6-8)		1015				X	X							HOLD SAMPLE
13		GP-07 (2-4)		1040				X	X							HOLD SAMPLE
14		GP-07 (6-8)		1045				X	X							HOLD SAMPLE
15		GP-08 (2-4)		1050	2			X								
16		GP-08 (6-8)		1055	2			X								
17		GP-09 (2-4)		1110	3			X		X	X					
18		GP-09 (6-8)		1115	2			X								
19		GP-10 (2-4)		1155	3			X	X	X	X					
20		GP-10 [illegible] (12-14)		1220	3			X	X							

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/24/17	1630	[signature]	TA	7-25-17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131594

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler:

Client: TRC | Client Project #: 27-8962

Project Name: Multiple sites along STH 50

Project Location/State: Kenosha, WI | Lab Project #:

Sampler: M. Kotrba | Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: PVOCs + Naph	Parameter: Lead	Parameter: GRO	Parameter: DRO	Comments
21		GP-11 (2-4)	7/24	1305	3	S	X	X			Hold Sample
22		GP-11 (14-15)		1330			X	X			Hold Sample
23		GP-12 (2-4)		1410			X	X			
24		GP-12 (14-16)		1425			X	X			
25		GP-13 (2-4)		1450	4		X	X	X	X	
26		GP-13 (6-8)		1455	3		X	X			
27		GP-14 (2-4)		1505	3		X	X			Hold Sample
28		Trip Blank		—	2		X				

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/24/17	1630	[signature]	TT	7-25-17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-0710 (1209)

8/25/2017

Fredrick, Sandie

From: Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Sent: Tuesday, August 08, 2017 8:39 AM
To: Fredrick, Sandie
Cc: Stapel, Warren
Subject: RE: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hey Sandie,

Can you please run GP-01 (6'-8') and GP-11 (2-4)?

Thank you,
Miranda

From: Stapel, Warren
Sent: Tuesday, August 08, 2017 7:48 AM
To: Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Subject: Fwd: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

Can you please review all the lab reports and ensure we have determined the correct hold samples to run? Thank you.

-------- Original message --------
From: "Fredrick, Sandie" <sandie.fredrick@testamericainc.com>
Date: 8/7/17 2:55 PM (GMT-06:00)
To: "Bergmann, Bryan" <BBergmann@trcsolutions.com>, "Kahrilas, Miranda" <MKahrilas@trcsolutions.com>, "Stapel, Warren" <WStapel@trcsolutions.com>
Subject: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

Hello All,

All but the hold analyses are complete. Please let me know on the holds.
Happy Monday!
Sandie

Attached please find the report files for job 500-131594-1; Multiple Sites along STH 50 - 278962

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

SANDIE J FREDRICK
Project Manager

TestAmerica Chicago
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 920.261.1660
www.testamericainc.com

Reference: [353867]
Attachments: 1

Fredrick, Sandie

From: Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Sent: Tuesday, August 01, 2017 4:06 PM
To: Fredrick, Sandie; Bergmann, Bryan
Cc: Stapel, Warren
Subject: RE: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hey Sandie,

Please run the following hold samples:

GP-02 (6'-8') [Lab ID: 4]
GP-11 (14'-15') [Lab ID: 22]
GP-17 (6'-8') - You should have received this sample the next day, it's lab ID for that day is 6

Thank you,
Miranda

From: Fredrick, Sandie [mailto:Sandra.Fredrick@testamericainc.com]
Sent: Tuesday, August 01, 2017 10:47 AM
To: Kahrilas, Miranda <MKahrilas@trcsolutions.com>; Bergmann, Bryan <BBergmann@trcsolutions.com>
Subject: RE: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

Sounds great Miranda!

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at:
https://www.surveymonkey.com/s/TAProjectFeedback

We are thankful for your business and hope that you have a wonderful day!

SANDIE FREDRICK
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street
University Park, IL 60484
Tel 920.261.1660
www.testamericainc.com

From: Kahrilas, Miranda [mailto:MKahrilas@trcsolutions.com]
Sent: Tuesday, August 01, 2017 10:36 AM
To: Fredrick, Sandie; Bergmann, Bryan
Subject: Re: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hey Sandie,

I will let you know by the end of today which samples need to be run.

Thank you!
Miranda

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: "Fredrick, Sandie" <sandie.fredrick@testamericainc.com>
Date: 8/1/17 10:25 AM (GMT-06:00)
To: "Bergmann, Bryan" <BBergmann@trcsolutions.com>, "Kahrilas, Miranda" <MKahrilas@trcsolutions.com>
Subject: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

Hello Bryan/Miranda,

Please let me know on the hold analyses. All analyses complete but the holds.
Thanks so much!
Sandie

Attached please find the report files for job 500-131594-1; Multiple Sites along STH 50 - 278962

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

SANDIE J FREDRICK
Project Manager

TestAmerica Chicago
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 920.261.1660
www.testamericainc.com

Reference: [352930]
Attachments: 1

ORIGIN ID:JOTA (708) 534-5200
MIRANDA KAHRILAS
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 19JUL17
ACTWGT: 20.00 LB MAN
CAD: 33264/CAFE3011

TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx Express

FedEx
TRK# 0221 6514 8437 1447

THU - 20 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US
ORD

FID 936183 24JUL17 ZMLA 546C1/C0C2/0C8A

ORIGIN ID:JOTA (708) 534-5200
MIRANDA KAHRILAS
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
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UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx Express

FedEx
TRK# 0221 6514 8437 1458

THU - 20 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US
ORD

FID 936183 24JUL17 ZMLA 546C1/C0C2/0C8A

500-131594 Waybill

2 - 48 qt

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-131594 Chain of Custody

Cooler Received/Opened On 7/26/2017 @0930

Time Samples Removed From Cooler 1100 Time Samples Placed In Storage 1132 (2 Hour Window)

1. Tracking # 3494 (last 4 digits, FedEx) Courier: FEDEX

IR Gun ID 14740456 pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 1.6 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) _____

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) _____

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) _____

I certify that I attached a label with the unique LIMS number to each container (intial) _____

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-131594

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	COC No: 500-90901.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin
			Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-131594-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 7/26/2017		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: WISDOT	Project #: 50010540		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM PVOC+NAP	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	Moisture/ Percent Moisture/Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GP-03 (2-4) (500-131594-5)	7/24/17	09:05 Central		Solid			X			1	
GP-03 (6-8) (500-131594-6)	7/24/17	09:10 Central		Solid			X			1	
GP-04 (2-4) (500-131594-7)	7/24/17	09:30 Central		Solid			X			1	
GP-04 (6-8) (500-131594-8)	7/24/17	09:35 Central		Solid			X			1	
GP-05 (2-4) (500-131594-9)	7/24/17	09:50 Central		Solid				X		1	Plus GRO
GP-05 (6-8) (500-131594-10)	7/24/17	09:55 Central		Solid			X			1	
GP-08 (2-4) (500-131594-15)	7/24/17	10:50 Central		Solid			X		X	2	
GP-08 (6-8) (500-131594-16)	7/24/17	10:55 Central		Solid			X		X	2	
GP-09 (2-4) (500-131594-17)	7/24/17	11:10 Central		Solid				X		1	Plus GRO

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification Unconfirmed	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/25/17 1520	Company TA-CHI	Received by:	Date/Time: 7/26/17 0800	Company TAV
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.6

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	Carrier Tracking No(s):	COC No: 500-90901.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-131594-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 7/26/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: WISDOT	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM PVOC+NAP	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	Moisture/ Percent Moisture/Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GP-09 (6-8) (500-131594-18)	7/24/17	11:15 Central		Solid			X			2	
GP-10 (2-4) (500-131594-19)	7/24/17	11:55 Central		Solid				X		1	Plus GRO
GP-10 (12-14) (500-131594-20)	7/24/17	12:20 Central		Solid			X			1	
GP-12 (2-4) (500-131594-23)	7/24/17	14:10 Central		Solid			X			1	
GP-12 (14-16) (500-131594-24)	7/24/17	14:25 Central		Solid			X			1	
GP-13 (2-4) (500-131594-25)	7/24/17	14:50 Central		Solid				X		1	Plus GRO
GP-13 (6-8) (500-131594-26)	7/24/17	14:55 Central		Solid			X			1	
TRIP BLANK (500-131594-28)	7/24/17	Central		Solid			X			1	

Loc: 500
131594

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:		Time:	Method of Shipment:	
Relinquished by:	Date/Time: 7/25/17 1520	Company TA-CHI	Received by:	Date/Time: 7/26/17 @ 0930	Company TAN	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 4.6

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131594-1

Login Number: 131594
List Number: 1
Creator: James, Jeff A

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	6.0, 4.2
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131594-1

Login Number: 131594
List Number: 2
Creator: Vest, Laura E

List Source: TestAmerica Nashville
List Creation: 07/26/17 11:28 AM

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	4.0
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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.	N/A	
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-131677-2
Client Project/Site: Multiple Sites Along STH 50 - 278962

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
8/25/2017 10:05:08 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Job ID: 500-131677-2

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-131677-2

Comments
No additional comments.

Receipt
The samples were received on 7/26/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.7º C and 5.9º C.

Receipt Exceptions
Client listed a trip blank on COC but one was not provided for lab.

GC/MS VOA
Method(s) 5035: field prepared methanol vial has < 8 grams of sample in 10 ml of methanol. GP-21 (10-11) (500-131677-12)

Method(s) 8260B: The laboratory control sample (LCS) for the soil preparation batch 394692 recovered outside control limits for 5 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported. The laboratory control sample (LCS) for the soil preparation batch 394693 recovered outside control limits for 4 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported. The laboratory control sample (LCS) for analytical batch 395131 recovered outside control limits for Dichlorodifluoromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. GP-17 (6-8) (500-131677-6), GP-20 (2-4) (500-131677-9) and GP-23 (2-4) (500-131677-15)

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

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

GC VOA
Method(s) WI-GRO: there are peaks outside the reported range for GRO. GP-20 (2-4) (500-131677-9) and GP-23 (2-4) (500-131677-15)

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

GC Semi VOA
Method(s) 8082A: The following sample required a mercury clean-up, via EPA Method 3660A, to reduce matrix interferences caused by sulfur: GP-23 (2-4) (500-131677-15). The reagent lot number used was: 165418.

Method(s) 8082A: The following sample was diluted due to the nature of the sample matrix: GP-23 (2-4) (500-131677-15). 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.

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

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

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

Organic Prep
Method(s) WI DRO PREP: WI_DRO_S_Prep WI_DRO. The following samples had to be weighed out due to reception of full jar containers: 500-131677-9 and 500-131677-15.

Job ID: 500-131677-2 (Continued)

Laboratory: TestAmerica Chicago (Continued)

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Client Sample ID: GP-17 (6-8) — Lab Sample ID: 500-131677-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.51	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-20 (2-4) — Lab Sample ID: 500-131677-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Gasoline Range Organics (C5-C10)	910	J	1900	650	ug/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	6.6		4.3	1.7	mg/Kg	1	☼	WI-DRO	Total/NA
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
pH	8.9		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.1152				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-23 (2-4) — Lab Sample ID: 500-131677-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Gasoline Range Organics (C5-C10)	1500	J	2000	650	ug/Kg	50	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	3.1	J	4.6	1.8	mg/Kg	1	☼	WI-DRO	Total/NA
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
Sulfide	32		10	4.7	mg/Kg	1		9034	Total/NA
pH	8.1		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	2.0436				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-27 (2-4) — Lab Sample ID: 500-131677-21

No Detections.

Client Sample ID: GP-31 (2-4) — Lab Sample ID: 500-131677-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
WI Diesel Range Organics (C10-C28)	3.5	J	6.2	2.5	mg/Kg	1	☼	WI-DRO	Total/NA

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency
NONE = NONE
SM = "Standard Methods For The Examination Of Water And Wastewater",
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.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-131677-6	GP-17 (6-8)	Solid	07/25/17 08:40	07/26/17 08:50
500-131677-9	GP-20 (2-4)	Solid	07/25/17 09:40	07/26/17 08:50
500-131677-15	GP-23 (2-4)	Solid	07/25/17 11:20	07/26/17 08:50
500-131677-21	GP-27 (2-4)	Solid	07/25/17 13:15	07/26/17 08:50
500-131677-27	GP-31 (2-4)	Solid	07/25/17 14:25	07/26/17 08:50

Client Sample ID: GP-17 (6-8)

Date Collected: 07/25/17 08:40
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-6

Matrix: Solid
Percent Solids: 86.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
Benzene	<9.6		16	9.6	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
Ethylbenzene	<12	*	16	12	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
Naphthalene	<22		66	22	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
Toluene	<9.7	*	16	9.7	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50
Xylenes, Total	<14		33	14	ug/Kg	☼	07/25/17 08:40	08/02/17 19:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*07/25/17 08:40*	*08/02/17 19:09*	*50*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*	*07/25/17 08:40*	*08/02/17 19:09*	*50*
Dibromofluoromethane	*101*		*75 - 120*	*07/25/17 08:40*	*08/02/17 19:09*	*50*
Toluene-d8 (Surr)	*95*		*75 - 120*	*07/25/17 08:40*	*08/02/17 19:09*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.51	0.23	mg/Kg	☼	08/02/17 09:20	08/02/17 22:46	1

Client Sample ID: GP-20 (2-4)

Date Collected: 07/25/17 09:40
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-9

Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
Benzene	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
Chloroform	<0.020		0.040	0.020	mg/L			08/03/17 17:30	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/03/17 17:30	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/03/17 17:30	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*08/03/17 17:30*	*20*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*08/03/17 17:30*	*20*
Dibromofluoromethane	*100*		*75 - 120*		*08/03/17 17:30*	*20*
Toluene-d8 (Surr)	*102*		*75 - 120*		*08/03/17 17:30*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 18:51	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		08/04/17 08:36	08/04/17 18:51	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 18:51	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 18:51	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 18:51	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 18:51	1

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-131677-9

Date Collected: 07/25/17 09:40

Matrix: Solid

Date Received: 07/26/17 08:50

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		08/04/17 08:36	08/04/17 18:51	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 18:51	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 18:51	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 18:51	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		08/04/17 08:36	08/04/17 18:51	1
Pyridine	<0.20		0.20	0.20	mg/L		08/04/17 08:36	08/04/17 18:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*96*		*40 - 145*	*08/04/17 08:36*	*08/04/17 18:51*	*1*
2-Fluorobiphenyl	*69*		*34 - 110*	*08/04/17 08:36*	*08/04/17 18:51*	*1*
2-Fluorophenol (Surr)	*47*		*27 - 110*	*08/04/17 08:36*	*08/04/17 18:51*	*1*
Nitrobenzene-d5 (Surr)	*80*		*36 - 120*	*08/04/17 08:36*	*08/04/17 18:51*	*1*
Phenol-d5 (Surr)	*29*		*20 - 100*	*08/04/17 08:36*	*08/04/17 18:51*	*1*
Terphenyl-d14 (Surr)	*98*		*40 - 145*	*08/04/17 08:36*	*08/04/17 18:51*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			08/02/17 19:50	1
Cyanide, Total	<0.16		0.45	0.16	mg/Kg		08/07/17 18:30	08/08/17 14:43	1
Sulfide	<4.7		10	4.7	mg/Kg		07/27/17 11:30	07/27/17 16:33	1
pH	**8.9**		0.2	0.2	SU			08/04/17 14:58	1
Paint Filter	**PASS**				No Unit			08/11/17 22:03	1
Specific Gravity	**2.1152**				NONE			08/11/17 21:38	1

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-131677-9

Date Collected: 07/25/17 09:40

Matrix: Solid

Date Received: 07/26/17 08:50

Percent Solids: 87.2

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**910**	**J**	1900	650	ug/Kg	☼	07/25/17 09:40	07/29/17 23:46	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.6		19	6.6	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1
PCB-1221	<8.3		19	8.3	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1
PCB-1254	<4.0		19	4.0	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	07/26/17 16:32	07/27/17 14:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*49 - 129*	*07/26/17 16:32*	*07/27/17 14:58*	*1*
DCB Decachlorobiphenyl	*60*		*37 - 121*	*07/26/17 16:32*	*07/27/17 14:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**6.6**		4.3	1.7	mg/Kg	☼	07/27/17 13:43	07/28/17 15:52	1

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-131677-9
Date Collected: 07/25/17 09:40
Matrix: Solid
Date Received: 07/26/17 08:50
Percent Solids: 87.2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*79*		*44 - 148*	*07/27/17 13:43*	*07/28/17 15:52*	*1*

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-131677-15
Date Collected: 07/25/17 11:20
Matrix: Solid
Date Received: 07/26/17 08:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
Benzene	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
Chloroform	<0.020		0.040	0.020	mg/L			08/03/17 17:59	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/03/17 17:59	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/03/17 17:59	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*106*		*75 - 126*		*08/03/17 17:59*	*20*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*08/03/17 17:59*	*20*
Dibromofluoromethane	*98*		*75 - 120*		*08/03/17 17:59*	*20*
Toluene-d8 (Surr)	*100*		*75 - 120*		*08/03/17 17:59*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 20:11	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		08/04/17 08:36	08/04/17 20:11	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 20:11	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 20:11	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 20:11	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 20:11	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		08/04/17 08:36	08/04/17 20:11	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 20:11	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 20:11	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 20:11	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		08/04/17 08:36	08/04/17 20:11	1
Pyridine	<0.20		0.20	0.20	mg/L		08/04/17 08:36	08/04/17 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*	*08/04/17 08:36*	*08/04/17 20:11*	*1*
2-Fluorobiphenyl	*69*		*34 - 110*	*08/04/17 08:36*	*08/04/17 20:11*	*1*
2-Fluorophenol (Surr)	*48*		*27 - 110*	*08/04/17 08:36*	*08/04/17 20:11*	*1*
Nitrobenzene-d5 (Surr)	*82*		*36 - 120*	*08/04/17 08:36*	*08/04/17 20:11*	*1*
Phenol-d5 (Surr)	*29*		*20 - 100*	*08/04/17 08:36*	*08/04/17 20:11*	*1*
Terphenyl-d14 (Surr)	*98*		*40 - 145*	*08/04/17 08:36*	*08/04/17 20:11*	*1*

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			08/02/17 21:10	1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-131677-15
Date Collected: 07/25/17 11:20
Matrix: Solid
Date Received: 07/26/17 08:50

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.15		0.44	0.15	mg/Kg		08/07/17 18:30	08/08/17 14:43	1
Sulfide	**32**		10	4.7	mg/Kg		07/27/17 11:30	07/27/17 16:36	1
pH	**8.1**		0.2	0.2	SU			08/04/17 15:00	1
Paint Filter	**PASS**				No Unit			08/11/17 22:05	1
Specific Gravity	**2.0436**				NONE			08/11/17 21:39	1

Client Sample ID: GP-23 (2-4)

Lab Sample ID: 500-131677-15
Date Collected: 07/25/17 11:20
Matrix: Solid
Date Received: 07/26/17 08:50
Percent Solids: 86.5

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1500**	**J**	2000	650	ug/Kg	☼	07/25/17 11:20	07/30/17 00:23	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<33		92	33	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5
PCB-1221	<40		92	40	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5
PCB-1232	<40		92	40	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5
PCB-1242	<30		92	30	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5
PCB-1248	<36		92	36	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5
PCB-1254	<20		92	20	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5
PCB-1260	<45		92	45	ug/Kg	☼	07/26/17 16:32	07/28/17 13:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*49 - 129*	*07/26/17 16:32*	*07/28/17 13:57*	*5*
DCB Decachlorobiphenyl	*77*		*37 - 121*	*07/26/17 16:32*	*07/28/17 13:57*	*5*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**3.1**	**J**	4.6	1.8	mg/Kg	☼	07/27/17 13:43	07/28/17 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*80*		*44 - 148*	*07/27/17 13:43*	*07/28/17 17:38*	*1*

Client Sample ID: GP-27 (2-4)

Lab Sample ID: 500-131677-21
Date Collected: 07/25/17 13:15
Matrix: Solid
Date Received: 07/26/17 08:50
Percent Solids: 87.6

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<620		1900	620	ug/Kg	☼	07/25/17 13:15	07/30/17 03:24	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<2.3		5.7	2.3	mg/Kg	☼	07/27/17 13:43	07/28/17 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*76*		*44 - 148*	*07/27/17 13:43*	*07/28/17 18:13*	*1*

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Client Sample ID: GP-31 (2-4)
Date Collected: 07/25/17 14:25
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-27
Matrix: Solid
Percent Solids: 87.3

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<650		1900	650	ug/Kg	☼	07/25/17 14:25	07/30/17 04:01	50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**3.5**	**J**	6.2	2.5	mg/Kg	☼	07/27/17 13:43	07/28/17 18:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*67*		*44 - 148*	*07/27/17 13:43*	*07/28/17 18:48*	*1*

TestAmerica Laboratories, Inc.
Attention: Sandie Fredrick
2417 Bond St
University Park,IL 44720

Date Received: 07/27/2017
Date Reported: **08/03/17 09:05**
Client Project: Soil/Waste
Client Project ID: Soil/Waste
PO# 2669273
Project #: Soil/Waste

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories. All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

Supplement to Certificate of Analysis issued 08/02/1718:50.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
1707340-01	**GP-20 (2-4) (500- 131677-9)**						**Date Collected: 07/25/2017**					
	Preparation: SW-846 5050 1994						Prepared By: P84Z		Analyzed By:	P84Z		
	Chlorine as Cl	0.00923	0.00178	0.0105	0.00202	J.00648	% Wt.	1	8/2/17	08/02/17	ASTM D808	
	Solids			Result: 87.92			% Wt.		Analyzed By: 7/31/17	YT09 08/01/17	SM2540G 1997	

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
1707340-02	**GP-23 (2-4) (500-131677-15)**						**Date Collected: 07/25/2017**					
	Preparation: SW-846 5050 1994						Prepared By: P84Z		Analyzed By:	P84Z		
	Chlorine as Cl	0.0190	0.00176	0.0224	0.00208	J.00664	% Wt.	1	8/2/17	08/02/17	ASTM D808	
	Solids			Result: 84.66			% Wt.		Analyzed By: 7/31/17	YT09 08/01/17	SM2540G 1997	

This report was prepared and printed by:

Josh Rhein, Chemistry Operations Manager

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| ISO/IEC-17025:2005 Accredited A2LA Cert # 4204.01 | State of Wisconsin Dept of Natural Resources Certified Laboratory Id: 241249360 |

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

GC/MS VOA

Prep Batch: 394692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-6	GP-17 (6-8)	Total/NA	Solid	5035	
LB3 500-394692/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-394692/22-A	Lab Control Sample	Total/NA	Solid	5035	
500-131677-6 MS	GP-17 (6-8)	Total/NA	Solid	5035	
500-131677-6 MSD	GP-17 (6-8)	Total/NA	Solid	5035	

Analysis Batch: 395131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LB3 500-394692/21-A	Method Blank	Total/NA	Solid	8260B	394692
MB 500-395131/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-394692/22-A	Lab Control Sample	Total/NA	Solid	8260B	394692
LCS 500-395131/4	Lab Control Sample	Total/NA	Solid	8260B	

Analysis Batch: 395588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-6	GP-17 (6-8)	Total/NA	Solid	8260B	394692
MB 500-395588/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-395588/4	Lab Control Sample	Total/NA	Solid	8260B	
500-131677-6 MS	GP-17 (6-8)	Total/NA	Solid	8260B	394692
500-131677-6 MSD	GP-17 (6-8)	Total/NA	Solid	8260B	394692

Leach Batch: 395624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	TCLP	Solid	1311	
500-131677-15	GP-23 (2-4)	TCLP	Solid	1311	
LB 500-395624/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 395703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	TCLP	Solid	8260B	395624
500-131677-15	GP-23 (2-4)	TCLP	Solid	8260B	395624
LB 500-395624/1-A	Method Blank	TCLP	Solid	8260B	395624
MB 500-395703/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-395703/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 395629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	TCLP	Solid	1311	
500-131677-15	GP-23 (2-4)	TCLP	Solid	1311	
LB 500-395629/1-D	Method Blank	TCLP	Solid	1311	
500-131677-9 MS	GP-20 (2-4)	TCLP	Solid	1311	

Prep Batch: 395963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	TCLP	Solid	3510C	395629
500-131677-15	GP-23 (2-4)	TCLP	Solid	3510C	395629
LB 500-395629/1-D	Method Blank	TCLP	Solid	3510C	395629
MB 500-395963/1-A	Method Blank	Total/NA	Solid	3510C	

GC/MS Semi VOA (Continued)

Prep Batch: 395963 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 500-395963/2-A	Lab Control Sample	Total/NA	Solid	3510C	
500-131677-9 MS	GP-20 (2-4)	TCLP	Solid	3510C	395629

Analysis Batch: 396027

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	TCLP	Solid	8270D	395963
500-131677-15	GP-23 (2-4)	TCLP	Solid	8270D	395963
LB 500-395629/1-D	Method Blank	TCLP	Solid	8270D	395963
MB 500-395963/1-A	Method Blank	Total/NA	Solid	8270D	395963
LCS 500-395963/2-A	Lab Control Sample	Total/NA	Solid	8270D	395963
500-131677-9 MS	GP-20 (2-4)	TCLP	Solid	8270D	395963

GC VOA

Prep Batch: 394692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	WI GRO	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	WI GRO	
LB3 500-394692/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-394692/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-394692/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 394693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-21	GP-27 (2-4)	Total/NA	Solid	WI GRO	
500-131677-27	GP-31 (2-4)	Total/NA	Solid	WI GRO	
LB3 500-394693/14-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 500-394693/16-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 500-394693/17-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 395110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	WI-GRO	394692
500-131677-15	GP-23 (2-4)	Total/NA	Solid	WI-GRO	394692
LB3 500-394692/21-A	Method Blank	Total/NA	Solid	WI-GRO	394692
LCS 500-394692/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	394692
LCSD 500-394692/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	394692

Analysis Batch: 395111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-21	GP-27 (2-4)	Total/NA	Solid	WI-GRO	394693
500-131677-27	GP-31 (2-4)	Total/NA	Solid	WI-GRO	394693
LB3 500-394693/14-A	Method Blank	Total/NA	Solid	WI-GRO	394693
LCS 500-394693/16-A	Lab Control Sample	Total/NA	Solid	WI-GRO	394693
LCSD 500-394693/17-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	394693

GC Semi VOA

Prep Batch: 394661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	3541	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	3541	
MB 500-394661/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-394661/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 394773

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	8082A	394661
MB 500-394661/1-A	Method Blank	Total/NA	Solid	8082A	394661
LCS 500-394661/3-A	Lab Control Sample	Total/NA	Solid	8082A	394661

Prep Batch: 394820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131677-21	GP-27 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131677-27	GP-31 (2-4)	Total/NA	Solid	WI DRO PREP	
MB 500-394820/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-394820/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-394820/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 394960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	WI-DRO	394820
500-131677-15	GP-23 (2-4)	Total/NA	Solid	WI-DRO	394820
500-131677-21	GP-27 (2-4)	Total/NA	Solid	WI-DRO	394820
500-131677-27	GP-31 (2-4)	Total/NA	Solid	WI-DRO	394820
MB 500-394820/1-A	Method Blank	Total/NA	Solid	WI-DRO	394820
LCS 500-394820/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	394820
LCSD 500-394820/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	394820

Analysis Batch: 395003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-15	GP-23 (2-4)	Total/NA	Solid	8082A	394661

Metals

Prep Batch: 395579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-6	GP-17 (6-8)	Total/NA	Solid	3050B	
MB 500-395579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-395579/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 395729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-6	GP-17 (6-8)	Total/NA	Solid	6010B	395579
MB 500-395579/1-A	Method Blank	Total/NA	Solid	6010B	395579
LCS 500-395579/2-A	Lab Control Sample	Total/NA	Solid	6010B	395579

General Chemistry

Analysis Batch: 394666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	Moisture	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	Moisture	

Prep Batch: 394765

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	9030B	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	9030B	
MB 500-394765/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-394765/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 394861

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	9034	394765
500-131677-15	GP-23 (2-4)	Total/NA	Solid	9034	394765
MB 500-394765/1-A	Method Blank	Total/NA	Solid	9034	394765
LCS 500-394765/2-A	Lab Control Sample	Total/NA	Solid	9034	394765

Analysis Batch: 395685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	1010	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	1010	

Analysis Batch: 395756

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-6	GP-17 (6-8)	Total/NA	Solid	Moisture	

Analysis Batch: 396226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	9045C	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	9045C	

Prep Batch: 396322

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	9010B	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	9010B	
MB 500-396322/12-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-396322/13-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 396513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	9014	396322
500-131677-15	GP-23 (2-4)	Total/NA	Solid	9014	396322
MB 500-396322/12-A	Method Blank	Total/NA	Solid	9014	396322
LCS 500-396322/13-A	Lab Control Sample	Total/NA	Solid	9014	396322

Analysis Batch: 397115

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	SM 2710F	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	SM 2710F	

General Chemistry (Continued)

Analysis Batch: 397116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131677-9	GP-20 (2-4)	Total/NA	Solid	9095A	
500-131677-15	GP-23 (2-4)	Total/NA	Solid	9095A	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-131677-6	GP-17 (6-8)	98	103	101	95
500-131677-6 MS	GP-17 (6-8)	95	99	101	95
500-131677-6 MSD	GP-17 (6-8)	96	99	101	95
LB3 500-394692/21-A	Method Blank	91	96	87	109
LCS 500-394692/22-A	Lab Control Sample	91	95	89	109
LCS 500-395131/4	Lab Control Sample	93	99	92	113
LCS 500-395588/4	Lab Control Sample	93	98	100	96
LCS 500-395703/5	Lab Control Sample	103	88	94	102
MB 500-395131/6	Method Blank	93	98	89	109
MB 500-395588/6	Method Blank	95	103	99	96
MB 500-395703/7	Method Blank	105	103	99	110

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-131677-9	GP-20 (2-4)	106	98	100	102
500-131677-15	GP-23 (2-4)	106	106	98	100
LB 500-395624/1-A	Method Blank	107	102	100	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)
LCS 500-395963/2-A	Lab Control Sample	85	63	42	69	31	81
MB 500-395963/1-A	Method Blank	87	72	49	80	30	97

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)
500-131677-9	GP-20 (2-4)	96	69	47	80	29	98
500-131677-9 MS	GP-20 (2-4)	80	58	42	66	30	78
500-131677-15	GP-23 (2-4)	92	69	48	82	29	98
LB 500-395629/1-D	Method Blank	88	66	43	78	26	94

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-131677-9	GP-20 (2-4)	68	60
500-131677-15	GP-23 (2-4)	65	77
LCS 500-394661/3-A	Lab Control Sample	74	73
MB 500-394661/1-A	Method Blank	55	71

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		C9
Lab Sample ID	Client Sample ID	(44-148)
500-131677-9	GP-20 (2-4)	79
500-131677-15	GP-23 (2-4)	80
500-131677-21	GP-27 (2-4)	76
500-131677-27	GP-31 (2-4)	67
LCS 500-394820/2-A	Lab Control Sample	86
LCSD 500-394820/3-A	Lab Control Sample Dup	86
MB 500-394820/1-A	Method Blank	80

Surrogate Legend

C9 = n-Nonane

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

Lab Sample ID: LB3 500-394692/21-A
Matrix: Solid
Analysis Batch: 395131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394692

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
Benzene	<7.3		13	7.3	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
Naphthalene	<17		50	17	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
Toluene	<7.4		13	7.4	ug/Kg		07/27/17 02:00	07/30/17 19:28	50
Xylenes, Total	<11		25	11	ug/Kg		07/27/17 02:00	07/30/17 19:28	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*	*07/27/17 02:00*	*07/30/17 19:28*	*50*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*07/27/17 02:00*	*07/30/17 19:28*	*50*
Dibromofluoromethane	*87*		*75 - 120*	*07/27/17 02:00*	*07/30/17 19:28*	*50*
Toluene-d8 (Surr)	*109*		*75 - 120*	*07/27/17 02:00*	*07/30/17 19:28*	*50*

Lab Sample ID: LCS 500-394692/22-A
Matrix: Solid
Analysis Batch: 395131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	2500	2950		ug/Kg		118	70 - 123
1,3,5-Trimethylbenzene	2500	2980		ug/Kg		119	70 - 123
Benzene	2500	2850		ug/Kg		114	70 - 120
Ethylbenzene	2500	3020	*	ug/Kg		121	70 - 120
Methyl tert-butyl ether	2500	2560		ug/Kg		102	70 - 120
Naphthalene	2500	2530		ug/Kg		101	59 - 130
Toluene	2500	3250	*	ug/Kg		130	70 - 125
Xylenes, Total	5000	6050		ug/Kg		121	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*91*		*75 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*89*		*75 - 120*
Toluene-d8 (Surr)	*109*		*75 - 120*

Lab Sample ID: 500-131677-6 MS
Matrix: Solid
Analysis Batch: 395588

Client Sample ID: GP-17 (6-8)
Prep Type: Total/NA
Prep Batch: 394692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	<24		3290	3010		ug/Kg	☼	91	70 - 123
1,3,5-Trimethylbenzene	<25		3290	3020		ug/Kg	☼	92	70 - 123
Benzene	<9.6		3290	3060		ug/Kg	☼	93	70 - 120
Ethylbenzene	<12	*	3290	3130		ug/Kg	☼	95	70 - 120
Methyl tert-butyl ether	<26		3290	3100		ug/Kg	☼	94	70 - 120
Naphthalene	<22		3290	3310		ug/Kg	☼	100	59 - 130
Toluene	<9.7	*	3290	3240		ug/Kg	☼	98	70 - 125

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

Lab Sample ID: 500-131677-6 MS
Matrix: Solid
Analysis Batch: 395588

Client Sample ID: GP-17 (6-8)
Prep Type: Total/NA
Prep Batch: 394692

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	<14		6580	6440		ug/Kg	☼	98	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: 500-131677-6 MSD
Matrix: Solid
Analysis Batch: 395588

Client Sample ID: GP-17 (6-8)
Prep Type: Total/NA
Prep Batch: 394692

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	<24		3290	2920		ug/Kg	☼	89	70 - 123	3	30
1,3,5-Trimethylbenzene	<25		3290	2890		ug/Kg	☼	88	70 - 123	4	30
Benzene	<9.6		3290	3010		ug/Kg	☼	91	70 - 120	1	30
Ethylbenzene	<12	*	3290	3070		ug/Kg	☼	93	70 - 120	2	30
Methyl tert-butyl ether	<26		3290	3050		ug/Kg	☼	93	70 - 120	2	30
Naphthalene	<22		3290	3250		ug/Kg	☼	99	59 - 130	2	30
Toluene	<9.7	*	3290	3160		ug/Kg	☼	96	70 - 125	2	30
Xylenes, Total	<14		6580	6250		ug/Kg	☼	95	70 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*101*		*75 - 120*
Toluene-d8 (Surr)	*95*		*75 - 120*

Lab Sample ID: MB 500-395131/6
Matrix: Solid
Analysis Batch: 395131

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			07/30/17 19:02	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			07/30/17 19:02	1
Benzene	<0.15		0.25	0.15	ug/Kg			07/30/17 19:02	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			07/30/17 19:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			07/30/17 19:02	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			07/30/17 19:02	1
Toluene	<0.15		0.25	0.15	ug/Kg			07/30/17 19:02	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			07/30/17 19:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*		*07/30/17 19:02*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*07/30/17 19:02*	*1*
Dibromofluoromethane	*89*		*75 - 120*		*07/30/17 19:02*	*1*
Toluene-d8 (Surr)	*109*		*75 - 120*		*07/30/17 19:02*	*1*

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

Lab Sample ID: LCS 500-395131/4
Matrix: Solid
Analysis Batch: 395131

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	54.3		ug/Kg		109	70 - 123
1,3,5-Trimethylbenzene	50.0	54.5		ug/Kg		109	70 - 123
Benzene	50.0	52.7		ug/Kg		105	70 - 120
Ethylbenzene	50.0	55.6		ug/Kg		111	70 - 120
Methyl tert-butyl ether	50.0	48.1		ug/Kg		96	70 - 120
Naphthalene	50.0	51.8		ug/Kg		104	59 - 130
Toluene	50.0	61.3		ug/Kg		123	70 - 125
Xylenes, Total	100	111		ug/Kg		111	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*
Dibromofluoromethane	*92*		*75 - 120*
Toluene-d8 (Surr)	*113*		*75 - 120*

Lab Sample ID: MB 500-395588/6
Matrix: Solid
Analysis Batch: 395588

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/02/17 13:30	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/02/17 13:30	1
Benzene	<0.15		0.25	0.15	ug/Kg			08/02/17 13:30	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/02/17 13:30	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/02/17 13:30	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/02/17 13:30	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/02/17 13:30	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/02/17 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*		*08/02/17 13:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*08/02/17 13:30*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/02/17 13:30*	*1*
Toluene-d8 (Surr)	*96*		*75 - 120*		*08/02/17 13:30*	*1*

Lab Sample ID: LCS 500-395588/4
Matrix: Solid
Analysis Batch: 395588

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	50.0	45.3		ug/Kg		91	70 - 123
1,3,5-Trimethylbenzene	50.0	45.2		ug/Kg		90	70 - 123
Benzene	50.0	46.1		ug/Kg		92	70 - 120
Ethylbenzene	50.0	48.8		ug/Kg		98	70 - 120
Methyl tert-butyl ether	50.0	45.8		ug/Kg		92	70 - 120
Naphthalene	50.0	43.7		ug/Kg		87	59 - 130
Toluene	50.0	49.3		ug/Kg		99	70 - 125

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

Lab Sample ID: LCS 500-395588/4
Matrix: Solid
Analysis Batch: 395588

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Xylenes, Total	100	98.9		ug/Kg		99	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-395703/7
Matrix: Solid
Analysis Batch: 395703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Benzene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			08/03/17 11:39	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			08/03/17 11:39	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*08/03/17 11:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*08/03/17 11:39*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/03/17 11:39*	*1*
Toluene-d8 (Surr)	*110*		*75 - 120*		*08/03/17 11:39*	*1*

Lab Sample ID: LCS 500-395703/5
Matrix: Solid
Analysis Batch: 395703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0502		mg/L		100	67 - 122
1,2-Dichloroethane	0.0500	0.0514		mg/L		103	68 - 127
Benzene	0.0500	0.0502		mg/L		100	70 - 120
Carbon tetrachloride	0.0500	0.0486		mg/L		97	65 - 122
Chlorobenzene	0.0500	0.0521		mg/L		104	70 - 120
Chloroform	0.0500	0.0484		mg/L		97	70 - 120
Methyl Ethyl Ketone	0.0500	0.0485		mg/L		97	53 - 141
Tetrachloroethene	0.0500	0.0494		mg/L		99	70 - 128
Trichloroethene	0.0500	0.0466		mg/L		93	70 - 125
Vinyl chloride	0.0500	0.0431		mg/L		86	64 - 126

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

Lab Sample ID: LCS 500-395703/5
Matrix: Solid
Analysis Batch: 395703

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

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane	*94*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: LB 500-395624/1-A
Matrix: Solid
Analysis Batch: 395703

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Benzene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Chloroform	<0.020		0.040	0.020	mg/L			08/03/17 12:08	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/03/17 12:08	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20

Surrogate	LB %Recovery	LB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*08/03/17 12:08*	*20*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*08/03/17 12:08*	*20*
Dibromofluoromethane	*100*		*75 - 120*		*08/03/17 12:08*	*20*
Toluene-d8 (Surr)	*102*		*75 - 120*		*08/03/17 12:08*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-395963/1-A
Matrix: Solid
Analysis Batch: 396027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		08/04/17 08:36	08/04/17 17:58	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 17:58	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		08/04/17 08:36	08/04/17 17:58	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		08/04/17 08:36	08/04/17 17:58	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		08/04/17 08:36	08/04/17 17:58	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		08/04/17 08:36	08/04/17 17:58	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		08/04/17 08:36	08/04/17 17:58	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		08/04/17 08:36	08/04/17 17:58	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		08/04/17 08:36	08/04/17 17:58	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		08/04/17 08:36	08/04/17 17:58	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 17:58	1
Pyridine	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 17:58	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-395963/1-A
Matrix: Solid
Analysis Batch: 396027

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395963

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	87		40 - 145	08/04/17 08:36	08/04/17 17:58	1
2-Fluorobiphenyl	72		34 - 110	08/04/17 08:36	08/04/17 17:58	1
2-Fluorophenol (Surr)	49		27 - 110	08/04/17 08:36	08/04/17 17:58	1
Nitrobenzene-d5 (Surr)	80		36 - 120	08/04/17 08:36	08/04/17 17:58	1
Phenol-d5 (Surr)	30		20 - 100	08/04/17 08:36	08/04/17 17:58	1
Terphenyl-d14 (Surr)	97		40 - 145	08/04/17 08:36	08/04/17 17:58	1

Lab Sample ID: LCS 500-395963/2-A
Matrix: Solid
Analysis Batch: 396027

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395963

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0197		mg/L		49	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0297		mg/L		74	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0305		mg/L		76	62 - 110
2,4-Dinitrotoluene	0.0400	0.0290		mg/L		73	63 - 122
2-Methylphenol	0.0400	0.0239		mg/L		60	53 - 110
3 & 4 Methylphenol	0.0400	0.0218		mg/L		54	53 - 110
Hexachlorobenzene	0.0400	0.0324		mg/L		81	61 - 120
Hexachlorobutadiene	0.0400	0.0215		mg/L		54	20 - 100
Hexachloroethane	0.0400	0.0215		mg/L		54	20 - 100
Nitrobenzene	0.0400	0.0343		mg/L		86	53 - 110
Pentachlorophenol	0.0800	0.0412		mg/L		52	23 - 129
Pyridine	0.0800	0.0262		mg/L		33	15 - 110

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	85		40 - 145
2-Fluorobiphenyl	63		34 - 110
2-Fluorophenol (Surr)	42		27 - 110
Nitrobenzene-d5 (Surr)	69		36 - 120
Phenol-d5 (Surr)	31		20 - 100
Terphenyl-d14 (Surr)	81		40 - 145

Lab Sample ID: LB 500-395629/1-D
Matrix: Solid
Analysis Batch: 396027

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 395963

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 16:38	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		08/04/17 08:36	08/04/17 16:38	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 16:38	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 16:38	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 16:38	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		08/04/17 08:36	08/04/17 16:38	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		08/04/17 08:36	08/04/17 16:38	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 16:38	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		08/04/17 08:36	08/04/17 16:38	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		08/04/17 08:36	08/04/17 16:38	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LB 500-395629/1-D
Matrix: Solid
Analysis Batch: 396027

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 395963

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	<0.20		0.20	0.20	mg/L		08/04/17 08:36	08/04/17 16:38	1
Pyridine	<0.20		0.20	0.20	mg/L		08/04/17 08:36	08/04/17 16:38	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*88*		*40 - 145*	*08/04/17 08:36*	*08/04/17 16:38*	*1*
2-Fluorobiphenyl	*66*		*34 - 110*	*08/04/17 08:36*	*08/04/17 16:38*	*1*
2-Fluorophenol (Surr)	*43*		*27 - 110*	*08/04/17 08:36*	*08/04/17 16:38*	*1*
Nitrobenzene-d5 (Surr)	*78*		*36 - 120*	*08/04/17 08:36*	*08/04/17 16:38*	*1*
Phenol-d5 (Surr)	*26*		*20 - 100*	*08/04/17 08:36*	*08/04/17 16:38*	*1*
Terphenyl-d14 (Surr)	*94*		*40 - 145*	*08/04/17 08:36*	*08/04/17 16:38*	*1*

Lab Sample ID: 500-131677-9 MS
Matrix: Solid
Analysis Batch: 396027

Client Sample ID: GP-20 (2-4)
Prep Type: TCLP
Prep Batch: 395963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	<0.020		0.400	0.197		mg/L		49	23 - 110
2,4,5-Trichlorophenol	<0.10		0.400	0.281		mg/L		70	63 - 120
2,4,6-Trichlorophenol	<0.050		0.400	0.290		mg/L		72	62 - 110
2,4-Dinitrotoluene	<0.010		0.400	0.276		mg/L		69	63 - 122
2-Methylphenol	<0.020		0.400	0.235		mg/L		59	53 - 110
3 & 4 Methylphenol	<0.020		0.400	0.211		mg/L		53	53 - 110
Hexachlorobenzene	<0.0050		0.400	0.304		mg/L		76	61 - 120
Hexachlorobutadiene	<0.050		0.400	0.207		mg/L		52	20 - 100
Hexachloroethane	<0.050		0.400	0.218		mg/L		55	20 - 100
Nitrobenzene	<0.010		0.400	0.328		mg/L		82	53 - 110
Pentachlorophenol	<0.20		0.800	0.411		mg/L		51	23 - 129
Pyridine	<0.20		0.800	0.305		mg/L		38	15 - 110

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*80*		*40 - 145*
2-Fluorobiphenyl	*58*		*34 - 110*
2-Fluorophenol (Surr)	*42*		*27 - 110*
Nitrobenzene-d5 (Surr)	*66*		*36 - 120*
Phenol-d5 (Surr)	*30*		*20 - 100*
Terphenyl-d14 (Surr)	*78*		*40 - 145*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-394692/21-A
Matrix: Solid
Analysis Batch: 395110

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394692

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		07/27/17 02:00	07/29/17 22:34	50

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 500-394692/23-A
Matrix: Solid
Analysis Batch: 395110

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394692

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	22700		ug/Kg		114	80 - 120

Lab Sample ID: LCSD 500-394692/24-A
Matrix: Solid
Analysis Batch: 395110

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 394692

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	22800		ug/Kg		114	80 - 120	0	20

Lab Sample ID: LB3 500-394693/14-A
Matrix: Solid
Analysis Batch: 395111

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394693

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		07/27/17 02:00	07/30/17 02:12	50

Lab Sample ID: LCS 500-394693/16-A
Matrix: Solid
Analysis Batch: 395111

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	22600		ug/Kg		113	80 - 120

Lab Sample ID: LCSD 500-394693/17-A
Matrix: Solid
Analysis Batch: 395111

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 394693

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)	20000	22700		ug/Kg		113	80 - 120	0	20

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

Lab Sample ID: MB 500-394661/1-A
Matrix: Solid
Analysis Batch: 394773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394661

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		07/26/17 16:32	07/27/17 10:37	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/26/17 16:32	07/27/17 10:37	1
PCB-1232	<7.3		17	7.3	ug/Kg		07/26/17 16:32	07/27/17 10:37	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/26/17 16:32	07/27/17 10:37	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/26/17 16:32	07/27/17 10:37	1
PCB-1254	<3.6		17	3.6	ug/Kg		07/26/17 16:32	07/27/17 10:37	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/26/17 16:32	07/27/17 10:37	1

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

Lab Sample ID: MB 500-394661/1-A
Matrix: Solid
Analysis Batch: 394773

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394661

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	55		49 - 129	07/26/17 16:32	07/27/17 10:37	1
DCB Decachlorobiphenyl	71		37 - 121	07/26/17 16:32	07/27/17 10:37	1

Lab Sample ID: LCS 500-394661/3-A
Matrix: Solid
Analysis Batch: 394773

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394661

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016	167	132		ug/Kg		79	57 - 120
PCB-1260	167	124		ug/Kg		74	61 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	74		49 - 129
DCB Decachlorobiphenyl	73		37 - 121

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

Lab Sample ID: MB 500-394820/1-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394820

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		07/27/17 13:43	07/28/17 11:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	80		44 - 148	07/27/17 13:43	07/28/17 11:11	1

Lab Sample ID: LCS 500-394820/2-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394820

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	20.0	18.6		mg/Kg		93	70 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Nonane	86		44 - 148

Lab Sample ID: LCSD 500-394820/3-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 394820

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	20.0	19.9		mg/Kg		100	70 - 120	7	20

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

Lab Sample ID: LCSD 500-394820/3-A
Matrix: Solid
Analysis Batch: 394960

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 394820

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*86*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-395579/1-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		08/02/17 09:20	08/02/17 20:50	1

Lab Sample ID: LCS 500-395579/2-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.21		mg/Kg		92	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-396322/12-A
Matrix: Solid
Analysis Batch: 396513

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 396322

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		08/07/17 18:30	08/08/17 14:39	1

Lab Sample ID: LCS 500-396322/13-A
Matrix: Solid
Analysis Batch: 396513

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 396322

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	5.09		mg/Kg		102	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-394765/1-A
Matrix: Solid
Analysis Batch: 394861

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 394765

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		07/27/17 11:30	07/27/17 15:45	1

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric) (Continued)

Lab Sample ID: LCS 500-394765/2-A
Matrix: Solid
Analysis Batch: 394861

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 394765

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	303	334		mg/Kg		110	80 - 120

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-131677-6
Date Collected: 07/25/17 08:40
Matrix: Solid
Date Received: 07/26/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395756	08/03/17 09:48	LWN	TAL CHI

Client Sample ID: GP-17 (6-8)

Lab Sample ID: 500-131677-6
Date Collected: 07/25/17 08:40
Matrix: Solid
Date Received: 07/26/17 08:50
Percent Solids: 86.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			394692	07/25/17 08:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395588	08/02/17 19:09	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:46	PJ1	TAL CHI

Client Sample ID: GP-20 (2-4)

Lab Sample ID: 500-131677-9
Date Collected: 07/25/17 09:40
Matrix: Solid
Date Received: 07/26/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			395624	08/02/17 12:53	JLC	TAL CHI
TCLP	Analysis	8260B		20	395703	08/03/17 17:30	PJH	TAL CHI
TCLP	Leach	1311			395629	08/02/17 12:53	JLC	TAL CHI
TCLP	Prep	3510C			395963	08/04/17 08:36	NRJ	TAL CHI
TCLP	Analysis	8270D		1	396027	08/04/17 18:51	GES	TAL CHI
Total/NA	Analysis	1010		1	395685		ADK	TAL CHI
					(Start)	08/02/17 19:50		
					(End)	08/02/17 21:10		
Total/NA	Prep	9010B			396322	08/07/17 18:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	396513		EAT	TAL CHI
					(Start)	08/08/17 14:43		
					(End)	08/08/17 14:44		
Total/NA	Prep	9030B			394765	07/27/17 11:30	NMH	TAL CHI
Total/NA	Analysis	9034		1	394861	07/27/17 16:33	NMH	TAL CHI
Total/NA	Analysis	9045C		1	396226		SMO	TAL CHI
					(Start)	08/04/17 14:58		
					(End)	08/04/17 15:00		
Total/NA	Analysis	9095A		1	397116		ADK	TAL CHI
					(Start)	08/11/17 22:03		
					(End)	08/11/17 22:05		
Total/NA	Analysis	Moisture		1	394666	07/26/17 19:06	PFK	TAL CHI
Total/NA	Analysis	SM 2710F		1	397115		ADK	TAL CHI
					(Start)	08/11/17 21:38		
					(End)	08/11/17 21:39		

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Client Sample ID: GP-20 (2-4)

Date Collected: 07/25/17 09:40
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-9
Matrix: Solid
Percent Solids: 87.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			394692	07/25/17 09:40	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	395110	07/29/17 23:46	WRE	TAL CHI
Total/NA	Prep	3541			394661	07/26/17 16:32	JP1	TAL CHI
Total/NA	Analysis	8082A		1	394773	07/27/17 14:58	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 15:52	SAW	TAL CHI

Client Sample ID: GP-23 (2-4)

Date Collected: 07/25/17 11:20
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			395624	08/02/17 12:53	JLC	TAL CHI
TCLP	Analysis	8260B		20	395703	08/03/17 17:59	PJH	TAL CHI
TCLP	Leach	1311			395629	08/02/17 12:53	JLC	TAL CHI
TCLP	Prep	3510C			395963	08/04/17 08:36	NRJ	TAL CHI
TCLP	Analysis	8270D		1	396027	08/04/17 20:11	GES	TAL CHI
Total/NA	Analysis	1010		1	395685		ADK	TAL CHI
					(Start)	08/02/17 21:10		
					(End)	08/02/17 22:30		
Total/NA	Prep	9010B			396322	08/07/17 18:30	MAN	TAL CHI
Total/NA	Analysis	9014		1	396513		EAT	TAL CHI
					(Start)	08/08/17 14:43		
					(End)	08/08/17 14:43		
Total/NA	Prep	9030B			394765	07/27/17 11:30	NMH	TAL CHI
Total/NA	Analysis	9034		1	394861	07/27/17 16:36	NMH	TAL CHI
Total/NA	Analysis	9045C		1	396226		SMO	TAL CHI
					(Start)	08/04/17 15:00		
					(End)	08/04/17 15:02		
Total/NA	Analysis	9095A		1	397116		ADK	TAL CHI
					(Start)	08/11/17 22:05		
					(End)	08/11/17 22:08		
Total/NA	Analysis	Moisture		1	394666	07/26/17 19:06	PFK	TAL CHI
Total/NA	Analysis	SM 2710F		1	397115		ADK	TAL CHI
					(Start)	08/11/17 21:39		
					(End)	08/11/17 21:41		

Client Sample ID: GP-23 (2-4)

Date Collected: 07/25/17 11:20
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-15
Matrix: Solid
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			394692	07/25/17 11:20	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	395110	07/30/17 00:23	WRE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131677-2

Client Sample ID: GP-23 (2-4)

Date Collected: 07/25/17 11:20
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-15
Matrix: Solid
Percent Solids: 86.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3541			394661	07/26/17 16:32	JP1	TAL CHI
Total/NA	Analysis	8082A		5	395003	07/28/17 13:57	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 17:38	SAW	TAL CHI

Client Sample ID: GP-27 (2-4)

Date Collected: 07/25/17 13:15
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-21
Matrix: Solid
Percent Solids: 87.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			394693	07/25/17 13:15	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	395111	07/30/17 03:24	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 18:13	SAW	TAL CHI

Client Sample ID: GP-31 (2-4)

Date Collected: 07/25/17 14:25
Date Received: 07/26/17 08:50

Lab Sample ID: 500-131677-27
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			394693	07/25/17 14:25	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	395111	07/30/17 04:01	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			394820	07/27/17 13:43	LMC	TAL CHI
Total/NA	Analysis	WI-DRO		1	394960	07/28/17 18:48	SAW	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 500-131677-2
Project/Site: Multiple Sites Along STH 50 - 278962

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

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(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131677

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: 5.7/5.9

Client: TRC
Client Project #: 278962
Project Name: multiple sites along STH 50
Project Location/State: Kenosha, WI
Lab Project #:
Sampler: M. Kahrilas
Lab PM:

Preservative Key
1. HCL, Cool to 4°
to 4°

500-131677 COC

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	1	8	1	8	1	8	8	8		Comments
							Parameter	BNOCs + Nap	Lead	GRO	DRO	VOCs	Metals 8 RCRA	PCBs + 11 RCRA Metals	Retinol B		
1		GP-15 (2-4)	7/25	7:55	3	S		X	X								
2		GP-15 (6-8)		8:00	3			X	X								
3		GP-16 (2-4)		8:10	3			X	X								Hold Sample
4		GP-16 (6-8)		8:15	3			X	X								Hold Sample
5		GP-17 (2-4)		8:35	3			X	X								Hold Sample
6		GP-17 (6-8)		8:40	3			X	X								Hold Sample
7		GP-18 (2-4)		9:15	3							X	X				
8		GP-19 (2-4)		9:25								X					
9		GP-20 (2-4)		9:40						X	X	X		X	X		
10		GP-20 (10-12)	↓	9:45	3	↓						X	X				

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/25/17	1630	[signature]	TAHE	07/26/17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FV Priority
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131677
Chain of Custody Number:
Page 2 of 3
Temperature °C of Cooler: 5.7, 5.9

Client	Client Project #
TRC	2758962
Project Name: Multiple sites along STH 50	
Project Location/State: Kenosha, WI	Lab Project #
Sampler: M. Kahrilas	Lab PM

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	1	8	1	8	8	8	1	8		Comments
							Parameter	VOCs	8 RCRA Metals	GRO	DRO	4 RCRA Metals + PCBs	Acetone	PVOCs + 2 Lead	Lead		
11		GP-21 (2-4)	7/25	10:10	3	S		X	X								Hold Samples
12		GP-21 (10-11)		10:19	3			X	X								Hold Sample
13		GP-22 (2-4)		10:45	3			X	X								Hold Sample
14		GP-22 (6-8)		10:55	3			X	X								Hold Sample
15		GP-23 (2-4)		11:20	4			X		X	X	X	X				
16		GP-24 (2-4		11:40	3			X	X								
17		GP-24 (6-8)		11:45	3			X	X								
18		GP-25 (2-4)		12:05	3			X	X								
19		GP-26 (2-4)		12:50	3									X	X		
20		GP-26 (6-8)		12:55	3									X	X		

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/25/17	1630	[signature]	TALHL	07/26/17	0855
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
						07/26/17	

Lab Courier
Shipped FX Priority
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131677

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler: 5.7, 5.9

Client: TRC
Client Project #: 278962
Project Name: Multiple Sites along STH 50
Project Location/State: Kenosha, WI
Lab Project #:
Sampler: M. Kahrilas
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	1	3	1	8						Comments
							Parameter	BNAs + 2nd	Lead	GRO	DRO						
21		GP-27 (2-4)	7/25	13:15	4	S		X	X	X	X						
22		GP-28 (2-4)		13:30	3			X	X								Hold Sample
23		GP-28 (6-8)		13:35	3			X	X								Hold Sample
24		GP-29 (2-4)		14:00	2			X									Hold Sample
25		GP-29 (6-8)		14:05	2			X									Hold Sample
26		GP-30 (2-4)		14:15	2			X									Hold Sample
27		GP-31 (2-4)		14:25	3			X		X	X						
28		GP-31 (6-8)		14:30	2			X		X	X MK						Just PAHs + Nap
29		GP-32 (2-4)		14:50	2			X									
30		GP-32 (6-8)		14:55	2			X									
		TRIP BLANK															

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/25/17	1630	[signature]	TAL	07/26/17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX Priority
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments: NO TB received in either of coolers sent to lab. AS 07/26/17

TAL-4124-500 (1209)

8/25/2017

Fredrick, Sandie

From: Kahrilas, Miranda <MKahrilas@trcsolutions.com>
Sent: Tuesday, August 01, 2017 4:06 PM
To: Fredrick, Sandie; Bergmann, Bryan
Cc: Stapel, Warren
Subject: RE: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hey Sandie,

Please run the following hold samples:

GP-02 (6'-8') [Lab ID: 4]
GP-11 (14'-15') [Lab ID: 22]
GP-17 (6'-8') - You should have received this sample the next day, it's lab ID for that day is 6

Thank you,
Miranda

From: Fredrick, Sandie [mailto:Sandra.Fredrick@testamericainc.com]
Sent: Tuesday, August 01, 2017 10:47 AM
To: Kahrilas, Miranda <MKahrilas@trcsolutions.com>; Bergmann, Bryan <BBergmann@trcsolutions.com>
Subject: RE: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

Sounds great Miranda!

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at:
https://www.surveymonkey.com/s/TAProjectFeedback

We are thankful for your business and hope that you have a wonderful day!

SANDIE FREDRICK
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street
University Park, IL 60484
Tel 920.261.1660
www.testamericainc.com

From: Kahrilas, Miranda [mailto:MKahrilas@trcsolutions.com]
Sent: Tuesday, August 01, 2017 10:36 AM
To: Fredrick, Sandie; Bergmann, Bryan
Subject: Re: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hey Sandie,

I will let you know by the end of today which samples need to be run.

Thank you!
Miranda

Sent from my Verizon Wireless 4G LTE smartphone

-------- Original message --------
From: "Fredrick, Sandie" <sandie.fredrick@testamericainc.com>
Date: 8/1/17 10:25 AM (GMT-06:00)
To: "Bergmann, Bryan" <BBergmann@trcsolutions.com>, "Kahrilas, Miranda" <MKahrilas@trcsolutions.com>
Subject: Preliminary TestAmerica report files from 500-131594-1 Multiple Sites along STH 50 - 278962

Hello Bryan/Miranda,

Please let me know on the hold analyses. All analyses complete but the holds.
Thanks so much!
Sandie

Attached please find the report files for job 500-131594-1; Multiple Sites along STH 50 - 278962

Please feel free to contact me if you have any questions.

Thank you.

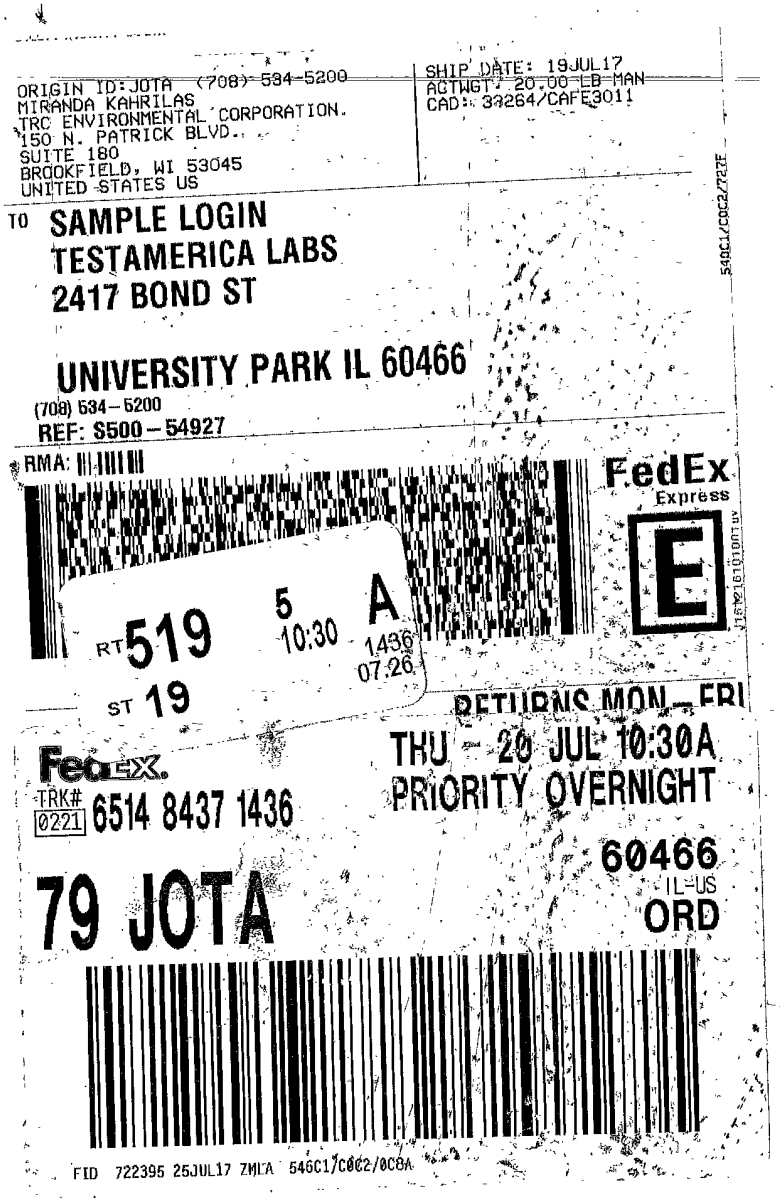
Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

SANDIE J FREDRICK
Project Manager

TestAmerica Chicago
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 920.261.1660
www.testamericainc.com

Reference: [352930]
Attachments: 1



ORIGIN ID:JOTA (708) 534-5200
MIRANDA KAHRILAS
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 19JUL17
ACTWGT: 20.00 LB MAN
CAD: 33264/CAFE3011

TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx Express

RT 519 5 10:30 A
ST 19 1436 07.26

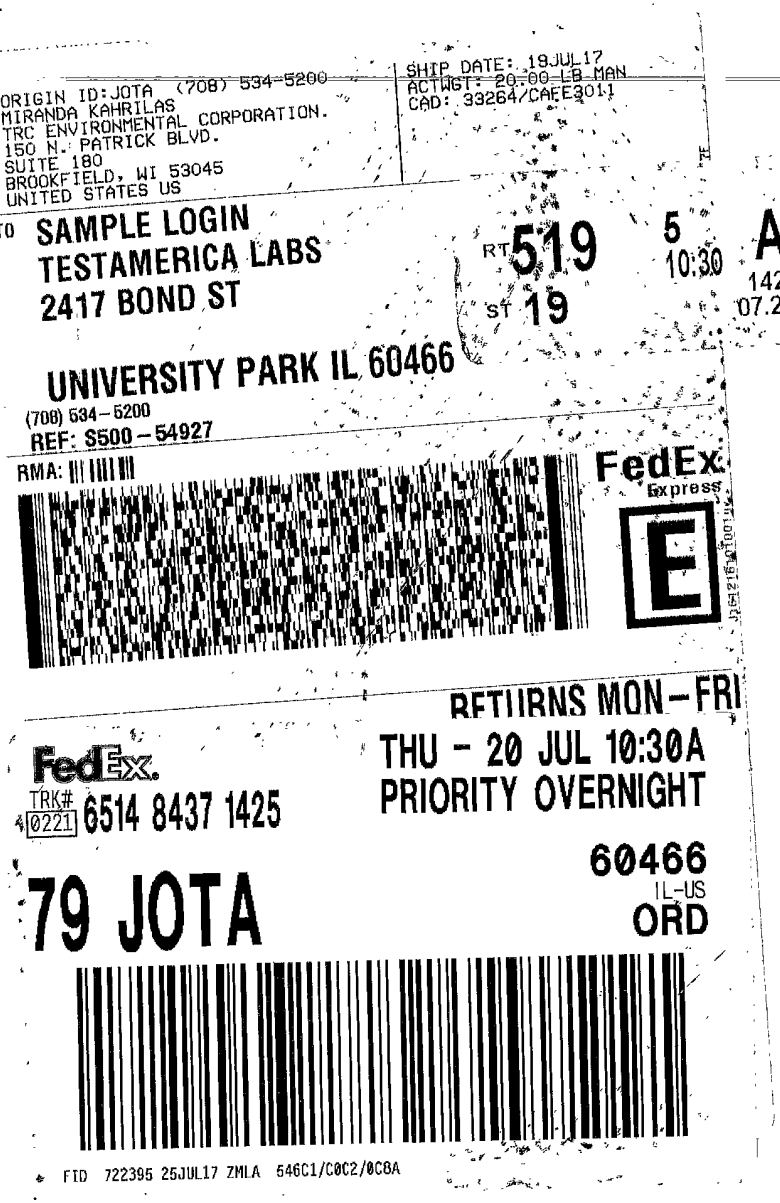
RETURNS MON-FRI
THU - 20 JUL 10:30A
PRIORITY OVERNIGHT

FedEx
TRK# 0221 6514 8437 1436

60466
IL-US
ORD

79 JOTA

FID 722395 25JUL17 ZMLA 546C1/C0C2/0C8A



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TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx Express

RT 519 5 10:30 A
ST 19 1425 07.26

RETURNS MON-FRI
THU - 20 JUL 10:30A
PRIORITY OVERNIGHT

FedEx
TRK# 0221 6514 8437 1425

60466
IL-US
ORD

79 JOTA

FID 722395 25JUL17 ZMLA 546C1/C0C2/0C8A

500-131677 Waybill

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131677-2

Login Number: 131677
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	5.7, 5.9
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	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-131727-1
Client Project/Site: Multiple Sites Along STH 50 - 278962

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
8/25/2017 10:15:18 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Case Narrative

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Job ID: 500-131727-1

Laboratory: TestAmerica Chicago

Narrative

ob Narrative
500-131727-1

Comments
No additional comments.

Receipt
The samples were received on 7/27/2017 8:50 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 3.2º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for the soil preparation batch 319762 recovered outside control limits for 25 analytes. These analytes were biased high in the preparation batch LCS, but were within limits in the analytical batch LCS; therefore, the data has been reported.

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

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

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

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

Organic Prep
Method(s) WI DRO PREP: WI_DRO_S_Prep. Samples 500-131727-1 and 16 were not received in pre-weighed jars as stated in the Wisconsin DRO method. 25 g of sample was weighed out and extracted.

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

VOA Prep
Method(s) WI GRO: added methanol to provide 1 ratio. GP-33 (2-4) (500-131727-1), GP-33 (6-8) (500-131727-2), GP-34 (10-11) (500-131727-4), GP-35 (6-8) (500-131727-6), GP-36 (2-4) (500-131727-7), GP-39 (2-4) (500-131727-13), GP-40 (2-4) (500-131727-14), GP-40 (6-8) (500-131727-15) and GP-41 (2-4) (500-131727-16)

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-33 (2-4) — Lab Sample ID: 500-131727-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-33 (6-8) — Lab Sample ID: 500-131727-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.7		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-34 (2-4) — Lab Sample ID: 500-131727-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	19	J	25	19	ug/Kg	1	☼	WDNR	Total/NA
Toluene	43		25	17	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	43		25	15	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	32		25	15	ug/Kg	1	☼	WDNR	Total/NA
Xylenes, Total	76		75	30	ug/Kg	1	☼	WDNR	Total/NA
Lead	25		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-34 (10-11) — Lab Sample ID: 500-131727-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-35 (2-4) — Lab Sample ID: 500-131727-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-35 (6-8) — Lab Sample ID: 500-131727-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-36 (2-4) — Lab Sample ID: 500-131727-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-39 (2-4) — Lab Sample ID: 500-131727-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-40 (2-4) — Lab Sample ID: 500-131727-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-40 (6-8) — Lab Sample ID: 500-131727-15

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-40 (6-8) (Continued) — Lab Sample ID: 500-131727-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.6		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-41 (2-4) — Lab Sample ID: 500-131727-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	56		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-43 (2-4) — Lab Sample ID: 500-131727-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		1.1	0.36	mg/Kg	1	☼	6010B	Total/NA
Barium	73		1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.13	J	0.21	0.038	mg/Kg	1	☼	6010B	Total/NA
Chromium	24		1.1	0.52	mg/Kg	1	☼	6010B	Total/NA
Copper	28		1.1	0.29	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.53	0.24	mg/Kg	1	☼	6010B	Total/NA
Nickel	38	B	1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Zinc	79		2.1	0.92	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.041		0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-43 (14-16) — Lab Sample ID: 500-131727-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	43		1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.18	J	0.22	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	16		1.1	0.54	mg/Kg	1	☼	6010B	Total/NA
Copper	19		1.1	0.31	mg/Kg	1	☼	6010B	Total/NA
Lead	9.6		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA
Nickel	27	B	1.1	0.32	mg/Kg	1	☼	6010B	Total/NA
Zinc	41		2.2	0.96	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.038		0.017	0.0056	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-44 (2-4) — Lab Sample ID: 500-131727-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		1.0	0.34	mg/Kg	1	☼	6010B	Total/NA
Barium	48		1.0	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.32		0.20	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	15		1.0	0.50	mg/Kg	1	☼	6010B	Total/NA
Copper	22		1.0	0.28	mg/Kg	1	☼	6010B	Total/NA
Lead	18		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Nickel	24		1.0	0.29	mg/Kg	1	☼	6010B	Total/NA
Zinc	61		2.0	0.88	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.046		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-44 (14-15) — Lab Sample ID: 500-131727-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.3		0.99	0.34	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-44 (14-15) (Continued) — Lab Sample ID: 500-131727-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	42		0.99	0.11	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.22		0.20	0.036	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		0.99	0.49	mg/Kg	1	☼	6010B	Total/NA
Copper	20		0.99	0.28	mg/Kg	1	☼	6010B	Total/NA
Lead	9.7		0.50	0.23	mg/Kg	1	☼	6010B	Total/NA
Nickel	30		0.99	0.29	mg/Kg	1	☼	6010B	Total/NA
Zinc	46		2.0	0.87	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.033		0.019	0.0062	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-131727-23

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI

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.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-131727-1	GP-33 (2-4)	Solid	07/26/17 08:15	07/27/17 08:50
500-131727-2	GP-33 (6-8)	Solid	07/26/17 08:20	07/27/17 08:50
500-131727-3	GP-34 (2-4)	Solid	07/26/17 08:40	07/27/17 08:50
500-131727-4	GP-34 (10-11)	Solid	07/26/17 09:00	07/27/17 08:50
500-131727-5	GP-35 (2-4)	Solid	07/26/17 09:30	07/27/17 08:50
500-131727-6	GP-35 (6-8)	Solid	07/26/17 09:35	07/27/17 08:50
500-131727-7	GP-36 (2-4)	Solid	07/26/17 10:25	07/27/17 08:50
500-131727-13	GP-39 (2-4)	Solid	07/26/17 11:50	07/27/17 08:50
500-131727-14	GP-40 (2-4)	Solid	07/26/17 12:10	07/27/17 08:50
500-131727-15	GP-40 (6-8)	Solid	07/26/17 12:15	07/27/17 08:50
500-131727-16	GP-41 (2-4)	Solid	07/26/17 12:40	07/27/17 08:50
500-131727-19	GP-43 (2-4)	Solid	07/26/17 13:40	07/27/17 08:50
500-131727-20	GP-43 (14-16)	Solid	07/26/17 13:55	07/27/17 08:50
500-131727-21	GP-44 (2-4)	Solid	07/26/17 14:30	07/27/17 08:50
500-131727-22	GP-44 (14-15)	Solid	07/26/17 14:50	07/27/17 08:50
500-131727-23	Trip Blank	Solid	07/26/17 00:00	07/27/17 08:50

Client Sample ID: GP-33 (2-4)

Date Collected: 07/26/17 08:15
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-1

Matrix: Solid
Percent Solids: 84.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Benzene	<22		30	22	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Ethylbenzene	<23		30	23	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Naphthalene	<140		300	140	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Toluene	<20		30	20	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Xylenes, Total	<36		90	36	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1
Wisconsin GRO	<3000		6000	3000	ug/Kg	☼	07/28/17 12:52	08/03/17 10:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*07/28/17 12:52*	*08/03/17 10:58*	*1*
a,a,a-Trifluorotoluene	*95*		*80 - 120*	*07/28/17 12:52*	*08/03/17 10:58*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.9		4.7	1.9	mg/Kg	☼	07/31/17 10:29	07/31/17 19:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*85*		*44 - 148*	*07/31/17 10:29*	*07/31/17 19:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		0.55	0.25	mg/Kg	☼	07/31/17 10:00	07/31/17 21:43	1

Client Sample ID: GP-33 (6-8)

Date Collected: 07/26/17 08:20
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-2

Matrix: Solid
Percent Solids: 86.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		28	21	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
Ethylbenzene	<22		28	22	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
Naphthalene	<140		280	140	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
Toluene	<19		28	19	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1
Xylenes, Total	<34		85	34	ug/Kg	☼	07/28/17 12:52	08/03/17 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*80 - 120*	*07/28/17 12:52*	*08/03/17 11:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**9.7**		0.51	0.24	mg/Kg	☼	07/31/17 10:00	07/31/17 22:04	1

Client Sample ID: GP-34 (2-4)

Lab Sample ID: 500-131727-3
Date Collected: 07/26/17 08:40
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 92.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
Ethylbenzene	**19**	**J**	25	19	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
Naphthalene	<120		250	120	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
Toluene	**43**		25	17	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
1,2,4-Trimethylbenzene	**43**		25	15	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
1,3,5-Trimethylbenzene	**32**		25	15	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1
Xylenes, Total	**76**		75	30	ug/Kg	☼	07/28/17 12:52	08/03/17 11:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*80 - 120*	*07/28/17 12:52*	*08/03/17 11:52*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**25**		0.48	0.22	mg/Kg	☼	07/31/17 10:00	07/31/17 22:08	1

Client Sample ID: GP-34 (10-11)

Lab Sample ID: 500-131727-4
Date Collected: 07/26/17 09:00
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 88.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
Ethylbenzene	<21		28	21	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
Naphthalene	<140		280	140	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
Toluene	<19		28	19	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1
Xylenes, Total	<34		85	34	ug/Kg	☼	07/28/17 12:52	08/03/17 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*113*		*80 - 120*	*07/28/17 12:52*	*08/03/17 12:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**11**		0.54	0.25	mg/Kg	☼	07/31/17 10:00	07/31/17 22:12	1

Client Sample ID: GP-35 (2-4)

Lab Sample ID: 500-131727-5
Date Collected: 07/26/17 09:30
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 80.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		27	20	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1
Ethylbenzene	<21		27	21	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1
Naphthalene	<130		270	130	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1
Toluene	<18		27	18	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1

Client Sample ID: GP-35 (2-4)

Lab Sample ID: 500-131727-5
Date Collected: 07/26/17 09:30
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 80.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<33		81	33	ug/Kg	☼	07/28/17 12:52	08/03/17 12:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*07/28/17 12:52*	*08/03/17 12:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		0.58	0.27	mg/Kg	☼	07/31/17 10:00	07/31/17 22:24	1

Client Sample ID: GP-35 (6-8)

Lab Sample ID: 500-131727-6
Date Collected: 07/26/17 09:35
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 85.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
Ethylbenzene	<22		29	22	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
Naphthalene	<140		290	140	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
Toluene	<20		29	20	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1
Xylenes, Total	<35		88	35	ug/Kg	☼	07/28/17 12:52	08/03/17 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*80 - 120*	*07/28/17 12:52*	*08/03/17 13:12*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.50	0.23	mg/Kg	☼	07/31/17 10:00	07/31/17 22:28	1

Client Sample ID: GP-36 (2-4)

Lab Sample ID: 500-131727-7
Date Collected: 07/26/17 10:25
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 83.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
Ethylbenzene	<23		30	23	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
Naphthalene	<140		300	140	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
Toluene	<20		30	20	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1
Xylenes, Total	<36		89	36	ug/Kg	☼	08/07/17 17:52	08/09/17 07:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*	*08/07/17 17:52*	*08/09/17 07:41*	*1*

Client Sample ID: GP-36 (2-4)

Lab Sample ID: 500-131727-7
Date Collected: 07/26/17 10:25
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 83.0

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		0.54	0.25	mg/Kg	☼	08/07/17 10:10	08/07/17 17:43	1

Client Sample ID: GP-39 (2-4)

Lab Sample ID: 500-131727-13
Date Collected: 07/26/17 11:50
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 87.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
Ethylbenzene	<22		29	22	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
Naphthalene	<140		290	140	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
Toluene	<20		29	20	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
1,2,4-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
1,3,5-Trimethylbenzene	<18		29	18	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1
Xylenes, Total	<35		88	35	ug/Kg	☼	07/28/17 12:52	08/03/17 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*80 - 120*	*07/28/17 12:52*	*08/03/17 13:39*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		0.53	0.24	mg/Kg	☼	07/31/17 10:00	07/31/17 22:32	1

Client Sample ID: GP-40 (2-4)

Lab Sample ID: 500-131727-14
Date Collected: 07/26/17 12:10
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 82.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
Ethylbenzene	<23		30	23	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
Naphthalene	<140		300	140	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
Toluene	<20		30	20	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1
Xylenes, Total	<36		90	36	ug/Kg	☼	07/28/17 12:52	08/03/17 14:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*80 - 120*	*07/28/17 12:52*	*08/03/17 14:06*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		0.54	0.25	mg/Kg	☼	07/31/17 10:00	07/31/17 22:36	1

Client Sample ID: GP-40 (6-8)

Lab Sample ID: 500-131727-15
Date Collected: 07/26/17 12:15
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 85.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
Ethylbenzene	<23		30	23	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
Naphthalene	<140		300	140	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
Toluene	<20		30	20	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1
Xylenes, Total	<36		89	36	ug/Kg	☼	07/28/17 12:52	08/03/17 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*80 - 120*	*07/28/17 12:52*	*08/03/17 14:33*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.6**		0.53	0.24	mg/Kg	☼	07/31/17 10:00	07/31/17 22:40	1

Client Sample ID: GP-41 (2-4)

Lab Sample ID: 500-131727-16
Date Collected: 07/26/17 12:40
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 86.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Benzene	<21		29	21	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Ethylbenzene	<22		29	22	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Naphthalene	<140		290	140	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Toluene	<20		29	20	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Xylenes, Total	<35		87	35	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1
Wisconsin GRO	<2900		5800	2900	ug/Kg	☼	07/28/17 12:52	08/03/17 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*80 - 120*	*07/28/17 12:52*	*08/03/17 15:00*	*1*
a,a,a-Trifluorotoluene	*93*		*80 - 120*	*07/28/17 12:52*	*08/03/17 15:00*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.8		4.5	1.8	mg/Kg	☼	07/31/17 10:29	07/31/17 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*79*		*44 - 148*	*07/31/17 10:29*	*07/31/17 19:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**56**		0.56	0.26	mg/Kg	☼	07/31/17 10:00	07/31/17 22:44	1

Client Sample ID: GP-43 (2-4)
Date Collected: 07/26/17 13:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-19
Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		68	31	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,1,1-Trichloroethane	<26	*	68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,1-Dichloroethane	<28	*	68	28	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,1-Dichloroethene	<26	*	68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,1-Dichloropropene	<20	*	68	20	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2,3-Trichloropropane	<28		68	28	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2,4-Trichlorobenzene	<23	*	68	23	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2-Dichloroethane	<27		68	27	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,3-Dichloropropane	<25		68	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Benzene	<9.9	*	17	9.9	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Bromobenzene	<24		68	24	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Bromochloromethane	<29	*	68	29	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Bromodichloromethane	<25	*	68	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Bromoform	<33		68	33	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Bromomethane	<54		140	54	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Carbon tetrachloride	<26	*	68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Chlorobenzene	<26	*	68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Chloroethane	<34		68	34	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Chloroform	<25	*	140	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Chloromethane	<22		68	22	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Dibromochloromethane	<33	*	68	33	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Dibromomethane	<18	*	68	18	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Dichlorodifluoromethane	<46		140	46	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Ethylbenzene	<12	*	17	12	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Isopropyl ether	<19		68	19	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Methyl tert-butyl ether	<27	*	68	27	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Methylene Chloride	<110	*	340	110	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Naphthalene	<23		68	23	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
n-Butylbenzene	<26	*	68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
p-Isopropyltoluene	<25		68	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50

Client Sample ID: GP-43 (2-4)

Date Collected: 07/26/17 13:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-19

Matrix: Solid
Percent Solids: 84.9

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		68	27	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Styrene	<26	*	68	26	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Tetrachloroethene	<25	*	68	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Toluene	<10	*	17	10	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
trans-1,2-Dichloroethene	<24	*	68	24	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
trans-1,3-Dichloropropene	<25		68	25	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Trichloroethene	<11	*	34	11	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Trichlorofluoromethane	<29	*	68	29	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Vinyl chloride	<18		34	18	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50
Xylenes, Total	<15	*	34	15	ug/Kg	☼	07/26/17 13:40	08/01/17 18:59	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*07/26/17 13:40*	*08/01/17 18:59*	*50*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*07/26/17 13:40*	*08/01/17 18:59*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*07/26/17 13:40*	*08/01/17 18:59*	*50*
Toluene-d8 (Surr)	*98*		*75 - 120*	*07/26/17 13:40*	*08/01/17 18:59*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.8		19	6.8	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1
PCB-1221	<8.4		19	8.4	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1
PCB-1260	<9.4		19	9.4	ug/Kg	☼	07/31/17 07:09	07/31/17 18:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*85*		*49 - 129*	*07/31/17 07:09*	*07/31/17 18:11*	*1*
DCB Decachlorobiphenyl	*84*		*37 - 121*	*07/31/17 07:09*	*07/31/17 18:11*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.0**		1.1	0.36	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Barium	**73**		1.1	0.12	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Cadmium	**0.13**	**J**	0.21	0.038	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Chromium	**24**		1.1	0.52	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Copper	**28**		1.1	0.29	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Lead	**18**		0.53	0.24	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Nickel	**38**	**B**	1.1	0.31	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Selenium	<0.62		1.1	0.62	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Silver	<0.14		0.53	0.14	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1
Zinc	**79**		2.1	0.92	mg/Kg	☼	07/31/17 10:00	07/31/17 22:48	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.041**		0.017	0.0057	mg/Kg	☼	07/31/17 08:05	07/31/17 14:23	1

Client Sample ID: GP-43 (14-16)
Date Collected: 07/26/17 13:55
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-20
Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		65	30	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,1,1-Trichloroethane	<25	*	65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,1,2,2-Tetrachloroethane	<26		65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,1,2-Trichloroethane	<23		65	23	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,1-Dichloroethane	<27	*	65	27	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,1-Dichloroethene	<26	*	65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,1-Dichloropropene	<20	*	65	20	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2,3-Trichlorobenzene	<30		65	30	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2,3-Trichloropropane	<27		65	27	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2,4-Trichlorobenzene	<22	*	65	22	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2,4-Trimethylbenzene	<23		65	23	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2-Dibromoethane	<25		65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2-Dichlorobenzene	<22		65	22	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2-Dichloroethane	<26		65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,2-Dichloropropane	<28		65	28	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,3,5-Trimethylbenzene	<25		65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,3-Dichlorobenzene	<26		65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,3-Dichloropropane	<24		65	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
1,4-Dichlorobenzene	<24		65	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
2,2-Dichloropropane	<29		65	29	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
2-Chlorotoluene	<21		65	21	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
4-Chlorotoluene	<23		65	23	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Benzene	<9.6	*	16	9.6	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Bromobenzene	<23		65	23	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Bromochloromethane	<28	*	65	28	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Bromodichloromethane	<24	*	65	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Bromoform	<32		65	32	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Bromomethane	<52		130	52	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Carbon tetrachloride	<25	*	65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Chlorobenzene	<25	*	65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Chloroethane	<33		65	33	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Chloroform	<24	*	130	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Chloromethane	<21		65	21	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
cis-1,2-Dichloroethene	<27		65	27	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
cis-1,3-Dichloropropene	<27		65	27	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Dibromochloromethane	<32	*	65	32	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Dibromomethane	<18	*	65	18	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Ethylbenzene	<12	*	16	12	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Hexachlorobutadiene	<29		65	29	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Isopropyl ether	<18		65	18	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Isopropylbenzene	<25		65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Methyl tert-butyl ether	<26	*	65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Naphthalene	<22		65	22	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
n-Butylbenzene	<25	*	65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
N-Propylbenzene	<27		65	27	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
p-Isopropyltoluene	<24		65	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50

Client Sample ID: GP-43 (14-16)
Date Collected: 07/26/17 13:55
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-20
Matrix: Solid
Percent Solids: 87.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Styrene	<25	*	65	25	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
tert-Butylbenzene	<26		65	26	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Tetrachloroethene	<24	*	65	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Toluene	<9.6	*	16	9.6	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
trans-1,2-Dichloroethene	<23	*	65	23	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
trans-1,3-Dichloropropene	<24		65	24	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Trichloroethene	<11	*	33	11	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Trichlorofluoromethane	<28	*	65	28	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Vinyl chloride	<17		33	17	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50
Xylenes, Total	<14	*	33	14	ug/Kg	☼	07/26/17 13:55	08/01/17 19:26	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*07/26/17 13:55*	*08/01/17 19:26*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*07/26/17 13:55*	*08/01/17 19:26*	*50*
Dibromofluoromethane	*104*		*75 - 120*	*07/26/17 13:55*	*08/01/17 19:26*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/26/17 13:55*	*08/01/17 19:26*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.7		19	6.7	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1
PCB-1221	<8.3		19	8.3	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1
PCB-1232	<8.2		19	8.2	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1
PCB-1242	<6.2		19	6.2	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1
PCB-1248	<7.4		19	7.4	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1
PCB-1254	<4.1		19	4.1	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1
PCB-1260	<9.2		19	9.2	ug/Kg	☼	07/31/17 07:09	07/31/17 18:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*49 - 129*	*07/31/17 07:09*	*07/31/17 18:26*	*1*
DCB Decachlorobiphenyl	*83*		*37 - 121*	*07/31/17 07:09*	*07/31/17 18:26*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**4.3**		1.1	0.37	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Barium	**43**		1.1	0.12	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Cadmium	**0.18**	**J**	0.22	0.039	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Chromium	**16**		1.1	0.54	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Copper	**19**		1.1	0.31	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Lead	**9.6**		0.55	0.25	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Nickel	**27**	**B**	1.1	0.32	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Selenium	<0.64		1.1	0.64	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1
Zinc	**41**		2.2	0.96	mg/Kg	☼	07/31/17 10:00	07/31/17 22:52	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.038**		0.017	0.0056	mg/Kg	☼	07/31/17 08:05	07/31/17 14:25	1

Client Sample ID: GP-44 (2-4)
Date Collected: 07/26/17 14:30
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-21
Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,1,1-Trichloroethane	<25	*	67	25	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,1,2-Trichloroethane	<23		67	23	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,1-Dichloroethane	<27	*	67	27	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,1-Dichloroethene	<26	*	67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,1-Dichloropropene	<20	*	67	20	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2,3-Trichloropropane	<28		67	28	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2,4-Trichlorobenzene	<23	*	67	23	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Benzene	<9.7	*	17	9.7	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Bromobenzene	<24		67	24	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Bromochloromethane	<29	*	67	29	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Bromodichloromethane	<25	*	67	25	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Bromoform	<32		67	32	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Bromomethane	<53		130	53	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Carbon tetrachloride	<26	*	67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Chlorobenzene	<26	*	67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Chloroethane	<34		67	34	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Chloroform	<25	*	130	25	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Chloromethane	<21		67	21	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Dibromochloromethane	<33	*	67	33	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Dibromomethane	<18	*	67	18	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Ethylbenzene	<12	*	17	12	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Isopropyl ether	<18		67	18	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Methyl tert-butyl ether	<26	*	67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Naphthalene	<22		67	22	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
n-Butylbenzene	<26	*	67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50

Client Sample ID: GP-44 (2-4)

Date Collected: 07/26/17 14:30
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-21

Matrix: Solid
Percent Solids: 86.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<27		67	27	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Styrene	<26	*	67	26	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Tetrachloroethene	<25	*	67	25	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Toluene	<9.8	*	17	9.8	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
trans-1,2-Dichloroethene	<23	*	67	23	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Trichloroethene	<11	*	33	11	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Trichlorofluoromethane	<29	*	67	29	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Vinyl chloride	<17		33	17	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50
Xylenes, Total	<15	*	33	15	ug/Kg	☼	07/26/17 14:30	08/01/17 19:51	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*101*		*75 - 126*	*07/26/17 14:30*	*08/01/17 19:51*	*50*
4-Bromofluorobenzene (Surr)	*99*		*72 - 124*	*07/26/17 14:30*	*08/01/17 19:51*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*07/26/17 14:30*	*08/01/17 19:51*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/26/17 14:30*	*08/01/17 19:51*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.8		19	6.8	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	07/31/17 07:09	07/31/17 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*49 - 129*	*07/31/17 07:09*	*07/31/17 18:41*	*1*
DCB Decachlorobiphenyl	*76*		*37 - 121*	*07/31/17 07:09*	*07/31/17 18:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.5**		1.0	0.34	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Barium	**48**		1.0	0.11	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Cadmium	**0.32**		0.20	0.036	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Chromium	**15**		1.0	0.50	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Copper	**22**		1.0	0.28	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Lead	**18**		0.50	0.23	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Nickel	**24**		1.0	0.29	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Selenium	<0.59		1.0	0.59	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1
Zinc	**61**		2.0	0.88	mg/Kg	☼	08/01/17 08:00	08/01/17 16:42	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.046**		0.018	0.0060	mg/Kg	☼	07/31/17 08:05	07/31/17 14:28	1

Client Sample ID: GP-44 (14-15)
Date Collected: 07/26/17 14:50
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-22
Matrix: Solid
Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,1,1-Trichloroethane	<25	*	66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,1-Dichloroethane	<27	*	66	27	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,1-Dichloroethene	<26	*	66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,1-Dichloropropene	<20	*	66	20	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2,4-Trichlorobenzene	<23	*	66	23	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Benzene	<9.6	*	16	9.6	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Bromobenzene	<23		66	23	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Bromochloromethane	<28	*	66	28	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Bromodichloromethane	<25	*	66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Bromoform	<32		66	32	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Bromomethane	<52		130	52	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Carbon tetrachloride	<25	*	66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Chlorobenzene	<25	*	66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Chloroethane	<33		66	33	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Chloroform	<24	*	130	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Chloromethane	<21		66	21	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Dibromochloromethane	<32	*	66	32	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Dibromomethane	<18	*	66	18	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Ethylbenzene	<12	*	16	12	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Isopropyl ether	<18		66	18	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Methyl tert-butyl ether	<26	*	66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Methylene Chloride	<110	*	330	110	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Naphthalene	<22		66	22	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
n-Butylbenzene	<26	*	66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50

Client Sample ID: GP-44 (14-15)

Date Collected: 07/26/17 14:50
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-22

Matrix: Solid
Percent Solids: 86.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<26		66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Styrene	<25	*	66	25	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Tetrachloroethene	<24	*	66	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Toluene	<9.7	*	16	9.7	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
trans-1,2-Dichloroethene	<23	*	66	23	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Trichloroethene	<11	*	33	11	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Trichlorofluoromethane	<28	*	66	28	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Vinyl chloride	<17		33	17	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50
Xylenes, Total	<14	*	33	14	ug/Kg	☼	07/26/17 14:50	08/01/17 20:17	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*07/26/17 14:50*	*08/01/17 20:17*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*07/26/17 14:50*	*08/01/17 20:17*	*50*
Dibromofluoromethane	*105*		*75 - 120*	*07/26/17 14:50*	*08/01/17 20:17*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/26/17 14:50*	*08/01/17 20:17*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.8		19	6.8	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1
PCB-1242	<6.3		19	6.3	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1
PCB-1260	<9.5		19	9.5	ug/Kg	☼	07/31/17 07:09	07/31/17 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*49 - 129*	*07/31/17 07:09*	*07/31/17 18:56*	*1*
DCB Decachlorobiphenyl	*82*		*37 - 121*	*07/31/17 07:09*	*07/31/17 18:56*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.3**		0.99	0.34	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Barium	**42**		0.99	0.11	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Cadmium	**0.22**		0.20	0.036	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Chromium	**17**		0.99	0.49	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Copper	**20**		0.99	0.28	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Lead	**9.7**		0.50	0.23	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Nickel	**30**		0.99	0.29	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Selenium	<0.58		0.99	0.58	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Silver	<0.13		0.50	0.13	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1
Zinc	**46**		2.0	0.87	mg/Kg	☼	08/01/17 08:00	08/01/17 16:46	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.033**		0.019	0.0062	mg/Kg	☼	07/31/17 08:05	07/31/17 14:30	1

Client Sample ID: Trip Blank
Date Collected: 07/26/17 00:00
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,1,1-Trichloroethane	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,1-Dichloroethane	<21	*	50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,1-Dichloroethene	<20	*	50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,1-Dichloropropene	<15	*	50	15	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2,4-Trichlorobenzene	<17	*	50	17	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Benzene	<7.3	*	13	7.3	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Bromobenzene	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Bromochloromethane	<21	*	50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Bromodichloromethane	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Bromoform	<24		50	24	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Bromomethane	<40		100	40	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Carbon tetrachloride	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Chlorobenzene	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Chloroethane	<25		50	25	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Chloroform	<19	*	100	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Chloromethane	<16		50	16	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Dibromochloromethane	<24	*	50	24	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Dibromomethane	<14	*	50	14	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Ethylbenzene	<9.2	*	13	9.2	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Isopropyl ether	<14		50	14	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Isopropylbenzene	<19		50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Methyl tert-butyl ether	<20	*	50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Methylene Chloride	<82	*	250	82	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Naphthalene	<17		50	17	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
n-Butylbenzene	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
N-Propylbenzene	<21		50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
p-Isopropyltoluene	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: Trip Blank
Date Collected: 07/26/17 00:00
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-23
Matrix: Solid

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Styrene	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Tetrachloroethene	<19	*	50	19	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Toluene	<7.4	*	13	7.4	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
trans-1,2-Dichloroethene	<18	*	50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Trichloroethene	<8.2	*	25	8.2	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Trichlorofluoromethane	<21	*	50	21	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Vinyl chloride	<13		25	13	ug/Kg		07/27/17 00:00	08/01/17 20:43	50
Xylenes, Total	<11	*	25	11	ug/Kg		07/27/17 00:00	08/01/17 20:43	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*07/27/17 00:00*	*08/01/17 20:43*	*50*
4-Bromofluorobenzene (Surr)	*101*		*72 - 124*	*07/27/17 00:00*	*08/01/17 20:43*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*07/27/17 00:00*	*08/01/17 20:43*	*50*
Toluene-d8 (Surr)	*96*		*75 - 120*	*07/27/17 00:00*	*08/01/17 20:43*	*50*

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

GC/MS VOA

Prep Batch: 395117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-19	GP-43 (2-4)	Total/NA	Solid	5035	
500-131727-20	GP-43 (14-16)	Total/NA	Solid	5035	
500-131727-21	GP-44 (2-4)	Total/NA	Solid	5035	
500-131727-22	GP-44 (14-15)	Total/NA	Solid	5035	
500-131727-23	Trip Blank	Total/NA	Solid	5035	
LB3 500-395117/16-A	Method Blank	Total/NA	Solid	5035	
LCS 500-395117/17-A	Lab Control Sample	Total/NA	Solid	5035	

Analysis Batch: 395404

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-19	GP-43 (2-4)	Total/NA	Solid	8260B	395117
500-131727-20	GP-43 (14-16)	Total/NA	Solid	8260B	395117
500-131727-21	GP-44 (2-4)	Total/NA	Solid	8260B	395117
500-131727-22	GP-44 (14-15)	Total/NA	Solid	8260B	395117
500-131727-23	Trip Blank	Total/NA	Solid	8260B	395117
LB3 500-395117/16-A	Method Blank	Total/NA	Solid	8260B	395117
MB 500-395404/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-395117/17-A	Lab Control Sample	Total/NA	Solid	8260B	395117
LCS 500-395404/4	Lab Control Sample	Total/NA	Solid	8260B	

GC VOA

Prep Batch: 448591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	WI GRO	
500-131727-2	GP-33 (6-8)	Total/NA	Solid	WI GRO	
500-131727-3	GP-34 (2-4)	Total/NA	Solid	WI GRO	
500-131727-4	GP-34 (10-11)	Total/NA	Solid	WI GRO	
500-131727-5	GP-35 (2-4)	Total/NA	Solid	WI GRO	
500-131727-6	GP-35 (6-8)	Total/NA	Solid	WI GRO	
500-131727-13	GP-39 (2-4)	Total/NA	Solid	WI GRO	
500-131727-14	GP-40 (2-4)	Total/NA	Solid	WI GRO	
500-131727-15	GP-40 (6-8)	Total/NA	Solid	WI GRO	
500-131727-16	GP-41 (2-4)	Total/NA	Solid	WI GRO	
MB 490-448591/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-448591/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-448591/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 449847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	WDNR	448591
500-131727-2	GP-33 (6-8)	Total/NA	Solid	WDNR	448591
500-131727-3	GP-34 (2-4)	Total/NA	Solid	WDNR	448591
500-131727-4	GP-34 (10-11)	Total/NA	Solid	WDNR	448591
500-131727-5	GP-35 (2-4)	Total/NA	Solid	WDNR	448591
500-131727-6	GP-35 (6-8)	Total/NA	Solid	WDNR	448591
500-131727-13	GP-39 (2-4)	Total/NA	Solid	WDNR	448591
500-131727-14	GP-40 (2-4)	Total/NA	Solid	WDNR	448591
500-131727-15	GP-40 (6-8)	Total/NA	Solid	WDNR	448591
500-131727-16	GP-41 (2-4)	Total/NA	Solid	WDNR	448591

GC VOA (Continued)

Analysis Batch: 449847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 490-448591/1-A	Method Blank	Total/NA	Solid	WDNR	448591
LCS 490-448591/2-A	Lab Control Sample	Total/NA	Solid	WDNR	448591
LCSD 490-448591/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	448591

Prep Batch: 450852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-7	GP-36 (2-4)	Total/NA	Solid	WI GRO	
MB 490-450852/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-450852/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-450852/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 451206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-7	GP-36 (2-4)	Total/NA	Solid	WDNR	450852
MB 490-450852/1-A	Method Blank	Total/NA	Solid	WDNR	450852
LCS 490-450852/2-A	Lab Control Sample	Total/NA	Solid	WDNR	450852
LCSD 490-450852/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	450852

GC Semi VOA

Prep Batch: 395186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-19	GP-43 (2-4)	Total/NA	Solid	3541	
500-131727-20	GP-43 (14-16)	Total/NA	Solid	3541	
500-131727-21	GP-44 (2-4)	Total/NA	Solid	3541	
500-131727-22	GP-44 (14-15)	Total/NA	Solid	3541	
MB 500-395186/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-395186/2-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 395211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-19	GP-43 (2-4)	Total/NA	Solid	8082A	395186
500-131727-20	GP-43 (14-16)	Total/NA	Solid	8082A	395186
500-131727-21	GP-44 (2-4)	Total/NA	Solid	8082A	395186
500-131727-22	GP-44 (14-15)	Total/NA	Solid	8082A	395186
MB 500-395186/1-A	Method Blank	Total/NA	Solid	8082A	395186
LCS 500-395186/2-A	Lab Control Sample	Total/NA	Solid	8082A	395186

Prep Batch: 395241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131727-16	GP-41 (2-4)	Total/NA	Solid	WI DRO PREP	
MB 500-395241/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-395241/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-395241/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 395285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	WI-DRO	395241
500-131727-16	GP-41 (2-4)	Total/NA	Solid	WI-DRO	395241

GC Semi VOA (Continued)

Analysis Batch: 395285 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-395241/1-A	Method Blank	Total/NA	Solid	WI-DRO	395241
LCS 500-395241/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	395241
LCSD 500-395241/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	395241

Metals

Prep Batch: 395065

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-19	GP-43 (2-4)	Total/NA	Solid	7471B	
500-131727-20	GP-43 (14-16)	Total/NA	Solid	7471B	
500-131727-21	GP-44 (2-4)	Total/NA	Solid	7471B	
500-131727-22	GP-44 (14-15)	Total/NA	Solid	7471B	
MB 500-395065/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-395065/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Prep Batch: 395231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	3050B	
500-131727-2	GP-33 (6-8)	Total/NA	Solid	3050B	
500-131727-3	GP-34 (2-4)	Total/NA	Solid	3050B	
500-131727-4	GP-34 (10-11)	Total/NA	Solid	3050B	
500-131727-5	GP-35 (2-4)	Total/NA	Solid	3050B	
500-131727-6	GP-35 (6-8)	Total/NA	Solid	3050B	
500-131727-13	GP-39 (2-4)	Total/NA	Solid	3050B	
500-131727-14	GP-40 (2-4)	Total/NA	Solid	3050B	
500-131727-15	GP-40 (6-8)	Total/NA	Solid	3050B	
500-131727-16	GP-41 (2-4)	Total/NA	Solid	3050B	
500-131727-19	GP-43 (2-4)	Total/NA	Solid	3050B	
500-131727-20	GP-43 (14-16)	Total/NA	Solid	3050B	
MB 500-395231/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-395231/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-131727-1 MS	GP-33 (2-4)	Total/NA	Solid	3050B	
500-131727-1 MSD	GP-33 (2-4)	Total/NA	Solid	3050B	
500-131727-1 DU	GP-33 (2-4)	Total/NA	Solid	3050B	

Analysis Batch: 395300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-19	GP-43 (2-4)	Total/NA	Solid	7471B	395065
500-131727-20	GP-43 (14-16)	Total/NA	Solid	7471B	395065
500-131727-21	GP-44 (2-4)	Total/NA	Solid	7471B	395065
500-131727-22	GP-44 (14-15)	Total/NA	Solid	7471B	395065
MB 500-395065/12-A	Method Blank	Total/NA	Solid	7471B	395065
LCS 500-395065/13-A	Lab Control Sample	Total/NA	Solid	7471B	395065

Prep Batch: 395329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-21	GP-44 (2-4)	Total/NA	Solid	3050B	
500-131727-22	GP-44 (14-15)	Total/NA	Solid	3050B	
MB 500-395329/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-395329/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 395374

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	6010B	395231
500-131727-2	GP-33 (6-8)	Total/NA	Solid	6010B	395231
500-131727-3	GP-34 (2-4)	Total/NA	Solid	6010B	395231
500-131727-4	GP-34 (10-11)	Total/NA	Solid	6010B	395231
500-131727-5	GP-35 (2-4)	Total/NA	Solid	6010B	395231
500-131727-6	GP-35 (6-8)	Total/NA	Solid	6010B	395231
500-131727-13	GP-39 (2-4)	Total/NA	Solid	6010B	395231
500-131727-14	GP-40 (2-4)	Total/NA	Solid	6010B	395231
500-131727-15	GP-40 (6-8)	Total/NA	Solid	6010B	395231
500-131727-16	GP-41 (2-4)	Total/NA	Solid	6010B	395231
500-131727-19	GP-43 (2-4)	Total/NA	Solid	6010B	395231
500-131727-20	GP-43 (14-16)	Total/NA	Solid	6010B	395231
MB 500-395231/1-A	Method Blank	Total/NA	Solid	6010B	395231
LCS 500-395231/2-A	Lab Control Sample	Total/NA	Solid	6010B	395231
500-131727-1 MS	GP-33 (2-4)	Total/NA	Solid	6010B	395231
500-131727-1 MSD	GP-33 (2-4)	Total/NA	Solid	6010B	395231
500-131727-1 DU	GP-33 (2-4)	Total/NA	Solid	6010B	395231

Analysis Batch: 395570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-21	GP-44 (2-4)	Total/NA	Solid	6010B	395329
500-131727-22	GP-44 (14-15)	Total/NA	Solid	6010B	395329
MB 500-395329/1-A	Method Blank	Total/NA	Solid	6010B	395329
LCS 500-395329/2-A	Lab Control Sample	Total/NA	Solid	6010B	395329

Prep Batch: 396248

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-7	GP-36 (2-4)	Total/NA	Solid	3050B	
MB 500-396248/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-396248/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 396396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-7	GP-36 (2-4)	Total/NA	Solid	6010B	396248
MB 500-396248/1-A	Method Blank	Total/NA	Solid	6010B	396248
LCS 500-396248/2-A	Lab Control Sample	Total/NA	Solid	6010B	396248

General Chemistry

Analysis Batch: 394847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-1	GP-33 (2-4)	Total/NA	Solid	Moisture	
500-131727-2	GP-33 (6-8)	Total/NA	Solid	Moisture	
500-131727-3	GP-34 (2-4)	Total/NA	Solid	Moisture	
500-131727-4	GP-34 (10-11)	Total/NA	Solid	Moisture	
500-131727-5	GP-35 (2-4)	Total/NA	Solid	Moisture	
500-131727-6	GP-35 (6-8)	Total/NA	Solid	Moisture	
500-131727-7	GP-36 (2-4)	Total/NA	Solid	Moisture	
500-131727-13	GP-39 (2-4)	Total/NA	Solid	Moisture	
500-131727-14	GP-40 (2-4)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 394847 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-15	GP-40 (6-8)	Total/NA	Solid	Moisture	
500-131727-16	GP-41 (2-4)	Total/NA	Solid	Moisture	
500-131727-19	GP-43 (2-4)	Total/NA	Solid	Moisture	
500-131727-20	GP-43 (14-16)	Total/NA	Solid	Moisture	
500-131727-3 DU	GP-34 (2-4)	Total/NA	Solid	Moisture	

Analysis Batch: 394850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131727-21	GP-44 (2-4)	Total/NA	Solid	Moisture	
500-131727-22	GP-44 (14-15)	Total/NA	Solid	Moisture	
500-131727-21 DU	GP-44 (2-4)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-131727-19	GP-43 (2-4)	100	102	104	98
500-131727-20	GP-43 (14-16)	100	101	104	96
500-131727-21	GP-44 (2-4)	101	99	103	97
500-131727-22	GP-44 (14-15)	100	101	105	97
500-131727-23	Trip Blank	98	101	103	96
LB3 500-395117/16-A	Method Blank	100	102	103	97
LCS 500-395117/17-A	Lab Control Sample	96	95	102	96
LCS 500-395404/4	Lab Control Sample	95	96	102	97
MB 500-395404/7	Method Blank	99	106	104	100

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT	TFT
Lab Sample ID	Client Sample ID	(80-120)	(80-120)
500-131727-1	GP-33 (2-4)	112	112
500-131727-2	GP-33 (6-8)	111	111
500-131727-3	GP-34 (2-4)	107	107
500-131727-4	GP-34 (10-11)	113	113
500-131727-5	GP-35 (2-4)	112	112
500-131727-6	GP-35 (6-8)	111	111
500-131727-7	GP-36 (2-4)	101	101
500-131727-13	GP-39 (2-4)	111	111
500-131727-14	GP-40 (2-4)	111	111
500-131727-15	GP-40 (6-8)	109	109
500-131727-16	GP-41 (2-4)	109	109
LCS 490-448591/2-A	Lab Control Sample	107	107
LCS 490-450852/2-A	Lab Control Sample	100	100
LCSD 490-448591/3-A	Lab Control Sample Dup	108	108
LCSD 490-450852/3-A	Lab Control Sample Dup	102	102
MB 490-448591/1-A	Method Blank	106	106
MB 490-450852/1-A	Method Blank	102	102

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(49-129)	(37-121)
500-131727-19	GP-43 (2-4)	85	84

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX1 (49-129)	DCB1 (37-121)								
500-131727-20	GP-43 (14-16)	78	83								
500-131727-21	GP-44 (2-4)	76	76								
500-131727-22	GP-44 (14-15)	77	82								
LCS 500-395186/2-A	Lab Control Sample	89	93								
MB 500-395186/1-A	Method Blank	91	90								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	C9 (44-148)									
500-131727-1	GP-33 (2-4)	85									
500-131727-16	GP-41 (2-4)	79									
LCS 500-395241/2-A	Lab Control Sample	88									
LCSD 500-395241/3-A	Lab Control Sample Dup	88									
MB 500-395241/1-A	Method Blank	86									

Surrogate Legend

C9 = n-Nonane

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

Lab Sample ID: LB3 500-395117/16-A
Matrix: Solid
Analysis Batch: 395404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395117

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,1-Dichloroethane	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,1-Dichloroethene	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,1-Dichloropropene	<15		50	15	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2-Dibromoethane	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2-Dichloroethane	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,2-Dichloropropane	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,3-Dichloropropane	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
2,2-Dichloropropane	<22		50	22	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
2-Chlorotoluene	<16		50	16	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
4-Chlorotoluene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Benzene	<7.3		13	7.3	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Bromobenzene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Bromochloromethane	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Bromodichloromethane	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Bromoform	<24		50	24	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Bromomethane	<40		100	40	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Carbon tetrachloride	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Chlorobenzene	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Chloroethane	<25		50	25	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Chloroform	<19		100	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Chloromethane	<16		50	16	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Dibromochloromethane	<24		50	24	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Dibromomethane	<14		50	14	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Dichlorodifluoromethane	<34		100	34	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Ethylbenzene	<9.2		13	9.2	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Hexachlorobutadiene	<22		50	22	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Isopropyl ether	<14		50	14	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Isopropylbenzene	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Methyl tert-butyl ether	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Methylene Chloride	805		250	82	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Naphthalene	<17		50	17	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
n-Butylbenzene	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
N-Propylbenzene	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50

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

Lab Sample ID: LB3 500-395117/16-A
Matrix: Solid
Analysis Batch: 395404

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395117

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
sec-Butylbenzene	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Styrene	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
tert-Butylbenzene	<20		50	20	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Tetrachloroethene	<19		50	19	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Toluene	<7.4		13	7.4	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Trichloroethene	<8.2		25	8.2	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Trichlorofluoromethane	<21		50	21	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Vinyl chloride	<13		25	13	ug/Kg		07/29/17 21:45	08/01/17 14:05	50
Xylenes, Total	<11		25	11	ug/Kg		07/29/17 21:45	08/01/17 14:05	50

Surrogate	*LB3 %Recovery*	*LB3 Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*07/29/17 21:45*	*08/01/17 14:05*	*50*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*	*07/29/17 21:45*	*08/01/17 14:05*	*50*
Dibromofluoromethane	*103*		*75 - 120*	*07/29/17 21:45*	*08/01/17 14:05*	*50*
Toluene-d8 (Surr)	*97*		*75 - 120*	*07/29/17 21:45*	*08/01/17 14:05*	*50*

Lab Sample ID: LCS 500-395117/17-A
Matrix: Solid
Analysis Batch: 395404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	2500	3100		ug/Kg		124	70 - 125
1,1,1-Trichloroethane	2500	3260	*	ug/Kg		130	70 - 125
1,1,2,2-Tetrachloroethane	2500	2880		ug/Kg		115	67 - 127
1,1,2-Trichloroethane	2500	3040		ug/Kg		122	70 - 122
1,1-Dichloroethane	2500	3140	*	ug/Kg		126	70 - 125
1,1-Dichloroethene	2500	3160	*	ug/Kg		126	67 - 122
1,1-Dichloropropene	2500	3260	*	ug/Kg		130	70 - 121
1,2,3-Trichlorobenzene	2500	3320		ug/Kg		133	55 - 140
1,2,3-Trichloropropane	2500	2600		ug/Kg		104	50 - 133
1,2,4-Trichlorobenzene	2500	3400	*	ug/Kg		136	66 - 127
1,2,4-Trimethylbenzene	2500	2930		ug/Kg		117	70 - 123
1,2-Dibromo-3-Chloropropane	2500	2790		ug/Kg		112	56 - 123
1,2-Dibromoethane	2500	3090		ug/Kg		124	70 - 125
1,2-Dichlorobenzene	2500	2990		ug/Kg		120	70 - 125
1,2-Dichloroethane	2500	3130		ug/Kg		125	68 - 127
1,2-Dichloropropane	2500	3150		ug/Kg		126	67 - 130
1,3,5-Trimethylbenzene	2500	2880		ug/Kg		115	70 - 123
1,3-Dichlorobenzene	2500	2980		ug/Kg		119	70 - 125
1,3-Dichloropropane	2500	3110		ug/Kg		124	62 - 136
1,4-Dichlorobenzene	2500	2950		ug/Kg		118	70 - 120
2,2-Dichloropropane	2500	3220		ug/Kg		129	58 - 129
2-Chlorotoluene	2500	2950		ug/Kg		118	70 - 125
4-Chlorotoluene	2500	3000		ug/Kg		120	68 - 124
Benzene	2500	3120	*	ug/Kg		125	70 - 120

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

Lab Sample ID: LCS 500-395117/17-A
Matrix: Solid
Analysis Batch: 395404

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	2500	2900		ug/Kg		116	70 - 122
Bromochloromethane	2500	3210	*	ug/Kg		128	65 - 122
Bromodichloromethane	2500	3130	*	ug/Kg		125	69 - 120
Bromoform	2500	3170		ug/Kg		127	56 - 132
Bromomethane	2500	2760		ug/Kg		110	40 - 130
Carbon tetrachloride	2500	3270	*	ug/Kg		131	65 - 122
Chlorobenzene	2500	3280	*	ug/Kg		131	70 - 120
Chloroethane	2500	3130		ug/Kg		125	45 - 127
Chloroform	2500	3260	*	ug/Kg		131	70 - 120
Chloromethane	2500	2160		ug/Kg		87	54 - 147
cis-1,2-Dichloroethene	2500	3120		ug/Kg		125	70 - 125
cis-1,3-Dichloropropene	2500	3180		ug/Kg		127	64 - 127
Dibromochloromethane	2500	3180	*	ug/Kg		127	68 - 125
Dibromomethane	2500	3230	*	ug/Kg		129	70 - 120
Dichlorodifluoromethane	2500	1910		ug/Kg		76	40 - 150
Ethylbenzene	2500	3230	*	ug/Kg		129	70 - 120
Hexachlorobutadiene	2500	3390		ug/Kg		135	51 - 150
Isopropylbenzene	2500	2910		ug/Kg		116	70 - 126
Methyl tert-butyl ether	2500	3140	*	ug/Kg		126	70 - 120
Methylene Chloride	2500	4030	*	ug/Kg		161	69 - 125
Naphthalene	2500	3060		ug/Kg		123	59 - 130
n-Butylbenzene	2500	3170	*	ug/Kg		127	68 - 125
N-Propylbenzene	2500	3020		ug/Kg		121	69 - 127
p-Isopropyltoluene	2500	2960		ug/Kg		119	70 - 125
sec-Butylbenzene	2500	2990		ug/Kg		120	70 - 123
Styrene	2500	3270	*	ug/Kg		131	70 - 120
tert-Butylbenzene	2500	2910		ug/Kg		117	70 - 121
Tetrachloroethene	2500	3420	*	ug/Kg		137	70 - 128
Toluene	2500	3310	*	ug/Kg		132	70 - 125
trans-1,2-Dichloroethene	2500	3140	*	ug/Kg		126	70 - 125
trans-1,3-Dichloropropene	2500	3130		ug/Kg		125	62 - 128
Trichloroethene	2500	3390	*	ug/Kg		136	70 - 125
Trichlorofluoromethane	2500	3170	*	ug/Kg		127	70 - 126
Vinyl chloride	2500	2700		ug/Kg		108	64 - 126
Xylenes, Total	5000	6570	*	ug/Kg		131	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
Toluene-d8 (Surr)	*96*		*75 - 120*

Lab Sample ID: MB 500-395404/7
Matrix: Solid
Analysis Batch: 395404

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/01/17 13:39	1

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

Lab Sample ID: MB 500-395404/7
Matrix: Solid
Analysis Batch: 395404

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/01/17 13:39	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/01/17 13:39	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/01/17 13:39	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/01/17 13:39	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/01/17 13:39	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			08/01/17 13:39	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			08/01/17 13:39	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/01/17 13:39	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/01/17 13:39	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/01/17 13:39	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/01/17 13:39	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/01/17 13:39	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/01/17 13:39	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/01/17 13:39	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/01/17 13:39	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/01/17 13:39	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/01/17 13:39	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/01/17 13:39	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/01/17 13:39	1
Benzene	<0.15		0.25	0.15	ug/Kg			08/01/17 13:39	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/01/17 13:39	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/01/17 13:39	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/01/17 13:39	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/01/17 13:39	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			08/01/17 13:39	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/01/17 13:39	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/01/17 13:39	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/01/17 13:39	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/01/17 13:39	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/01/17 13:39	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/01/17 13:39	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/01/17 13:39	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/01/17 13:39	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			08/01/17 13:39	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/01/17 13:39	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/01/17 13:39	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/01/17 13:39	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/01/17 13:39	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/01/17 13:39	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/01/17 13:39	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/01/17 13:39	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/01/17 13:39	1

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

Lab Sample ID: MB 500-395404/7
Matrix: Solid
Analysis Batch: 395404

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/01/17 13:39	1
Styrene	<0.39		1.0	0.39	ug/Kg			08/01/17 13:39	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/01/17 13:39	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/01/17 13:39	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/01/17 13:39	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/01/17 13:39	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/01/17 13:39	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/01/17 13:39	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/01/17 13:39	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			08/01/17 13:39	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/01/17 13:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*99*		*75 - 126*		*08/01/17 13:39*	*1*
4-Bromofluorobenzene (Surr)	*106*		*72 - 124*		*08/01/17 13:39*	*1*
Dibromofluoromethane	*104*		*75 - 120*		*08/01/17 13:39*	*1*
Toluene-d8 (Surr)	*100*		*75 - 120*		*08/01/17 13:39*	*1*

Lab Sample ID: LCS 500-395404/4
Matrix: Solid
Analysis Batch: 395404

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	70 - 125
1,1,1-Trichloroethane	50.0	49.1		ug/Kg		98	70 - 125
1,1,2,2-Tetrachloroethane	50.0	45.7		ug/Kg		91	67 - 127
1,1,2-Trichloroethane	50.0	47.3		ug/Kg		95	70 - 122
1,1-Dichloroethane	50.0	49.0		ug/Kg		98	70 - 125
1,1-Dichloroethene	50.0	48.8		ug/Kg		98	67 - 122
1,1-Dichloropropene	50.0	51.0		ug/Kg		102	70 - 121
1,2,3-Trichlorobenzene	50.0	51.0		ug/Kg		102	55 - 140
1,2,3-Trichloropropane	50.0	43.6		ug/Kg		87	50 - 133
1,2,4-Trichlorobenzene	50.0	50.9		ug/Kg		102	66 - 127
1,2,4-Trimethylbenzene	50.0	46.7		ug/Kg		93	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.3		ug/Kg		87	56 - 123
1,2-Dibromoethane	50.0	48.8		ug/Kg		98	70 - 125
1,2-Dichlorobenzene	50.0	47.0		ug/Kg		94	70 - 125
1,2-Dichloroethane	50.0	47.6		ug/Kg		95	68 - 127
1,2-Dichloropropane	50.0	47.7		ug/Kg		95	67 - 130
1,3,5-Trimethylbenzene	50.0	46.5		ug/Kg		93	70 - 123
1,3-Dichlorobenzene	50.0	47.4		ug/Kg		95	70 - 125
1,3-Dichloropropane	50.0	47.9		ug/Kg		96	62 - 136
1,4-Dichlorobenzene	50.0	47.1		ug/Kg		94	70 - 120
2,2-Dichloropropane	50.0	49.5		ug/Kg		99	58 - 129
2-Chlorotoluene	50.0	47.7		ug/Kg		95	70 - 125
4-Chlorotoluene	50.0	48.1		ug/Kg		96	68 - 124
Benzene	50.0	48.6		ug/Kg		97	70 - 120
Bromobenzene	50.0	46.6		ug/Kg		93	70 - 122

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

Lab Sample ID: LCS 500-395404/4
Matrix: Solid
Analysis Batch: 395404

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	50.4		ug/Kg		101	65 - 122
Bromodichloromethane	50.0	49.1		ug/Kg		98	69 - 120
Bromoform	50.0	48.6		ug/Kg		97	56 - 132
Bromomethane	50.0	49.2		ug/Kg		98	40 - 130
Carbon tetrachloride	50.0	50.2		ug/Kg		100	65 - 122
Chlorobenzene	50.0	51.4		ug/Kg		103	70 - 120
Chloroethane	50.0	57.3		ug/Kg		115	45 - 127
Chloroform	50.0	50.2		ug/Kg		100	70 - 120
Chloromethane	50.0	45.2		ug/Kg		90	54 - 147
cis-1,2-Dichloroethene	50.0	47.9		ug/Kg		96	70 - 125
cis-1,3-Dichloropropene	50.0	47.5		ug/Kg		95	64 - 127
Dibromochloromethane	50.0	48.7		ug/Kg		97	68 - 125
Dibromomethane	50.0	49.6		ug/Kg		99	70 - 120
Dichlorodifluoromethane	50.0	58.0		ug/Kg		116	40 - 150
Ethylbenzene	50.0	50.2		ug/Kg		100	70 - 120
Hexachlorobutadiene	50.0	52.6		ug/Kg		105	51 - 150
Isopropylbenzene	50.0	46.6		ug/Kg		93	70 - 126
Methyl tert-butyl ether	50.0	49.0		ug/Kg		98	70 - 120
Methylene Chloride	50.0	53.2		ug/Kg		106	69 - 125
Naphthalene	50.0	47.3		ug/Kg		95	59 - 130
n-Butylbenzene	50.0	49.3		ug/Kg		99	68 - 125
N-Propylbenzene	50.0	48.3		ug/Kg		97	69 - 127
p-Isopropyltoluene	50.0	47.2		ug/Kg		94	70 - 125
sec-Butylbenzene	50.0	47.4		ug/Kg		95	70 - 123
Styrene	50.0	51.3		ug/Kg		103	70 - 120
tert-Butylbenzene	50.0	46.7		ug/Kg		93	70 - 121
Tetrachloroethene	50.0	52.8		ug/Kg		106	70 - 128
Toluene	50.0	51.4		ug/Kg		103	70 - 125
trans-1,2-Dichloroethene	50.0	48.3		ug/Kg		97	70 - 125
trans-1,3-Dichloropropene	50.0	48.1		ug/Kg		96	62 - 128
Trichloroethene	50.0	51.4		ug/Kg		103	70 - 125
Trichlorofluoromethane	50.0	52.8		ug/Kg		106	70 - 126
Vinyl chloride	50.0	52.2		ug/Kg		104	64 - 126
Xylenes, Total	100	103		ug/Kg		103	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*
Dibromofluoromethane	*102*		*75 - 120*
Toluene-d8 (Surr)	*97*		*75 - 120*

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-448591/1-A
Matrix: Solid
Analysis Batch: 449847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448591

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
Ethylbenzene	<19		25	19	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
Naphthalene	<120		250	120	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
Toluene	<17		25	17	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
Xylenes, Total	<30		75	30	ug/Kg		07/28/17 12:49	08/03/17 10:32	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		07/28/17 12:49	08/03/17 10:32	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*80 - 120*	*07/28/17 12:49*	*08/03/17 10:32*	*1*
a,a,a-Trifluorotoluene	*91*		*80 - 120*	*07/28/17 12:49*	*08/03/17 10:32*	*1*

Lab Sample ID: LCS 490-448591/2-A
Matrix: Solid
Analysis Batch: 449847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448591

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5300		ug/Kg		106	76 - 120
Ethylbenzene	5000	5370		ug/Kg		107	77 - 120
Methyl tert-butyl ether	5000	5180		ug/Kg		104	73 - 120
1,2,4-Trimethylbenzene	5000	5070		ug/Kg		101	60 - 140
Naphthalene	5000	4710		ug/Kg		94	74 - 127
1,3,5-Trimethylbenzene	5000	5210		ug/Kg		104	74 - 133
Toluene	5000	5440		ug/Kg		109	79 - 120
Wisconsin GRO	50000	46500		ug/Kg		93	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*107*		*80 - 120*
a,a,a-Trifluorotoluene	*92*		*80 - 120*

Lab Sample ID: LCSD 490-448591/3-A
Matrix: Solid
Analysis Batch: 449847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448591

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	5400		ug/Kg		108	76 - 120	2	27
Ethylbenzene	5000	5370		ug/Kg		107	77 - 120	0	49
Methyl tert-butyl ether	5000	5270		ug/Kg		105	73 - 120	2	31
1,2,4-Trimethylbenzene	5000	5080		ug/Kg		102	60 - 140	0	50
Naphthalene	5000	4470		ug/Kg		89	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	5220		ug/Kg		104	74 - 133	0	42
Toluene	5000	5490		ug/Kg		110	79 - 120	1	37
Wisconsin GRO	50000	46700		ug/Kg		93	80 - 120	1	20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-448591/3-A
Matrix: Solid
Analysis Batch: 449847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448591

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*80 - 120*
a,a,a-Trifluorotoluene	*91*		*80 - 120*

Lab Sample ID: MB 490-450852/1-A
Matrix: Solid
Analysis Batch: 451206

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450852

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
Ethylbenzene	<19		25	19	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
Naphthalene	<120		250	120	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
Toluene	<17		25	17	ug/Kg		08/07/17 17:52	08/09/17 06:47	1
Xylenes, Total	<30		75	30	ug/Kg		08/07/17 17:52	08/09/17 06:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*80 - 120*	*08/07/17 17:52*	*08/09/17 06:47*	*1*

Lab Sample ID: LCS 490-450852/2-A
Matrix: Solid
Analysis Batch: 451206

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450852

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5390		ug/Kg		108	76 - 120
Ethylbenzene	5000	5310		ug/Kg		106	77 - 120
Methyl tert-butyl ether	5000	5320		ug/Kg		106	73 - 120
1,2,4-Trimethylbenzene	5000	4990		ug/Kg		100	60 - 140
Naphthalene	5000	4510		ug/Kg		90	74 - 127
1,3,5-Trimethylbenzene	5000	5200		ug/Kg		104	74 - 133
Toluene	5000	5490		ug/Kg		110	79 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*100*		*80 - 120*

Lab Sample ID: LCSD 490-450852/3-A
Matrix: Solid
Analysis Batch: 451206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 450852

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	5430		ug/Kg		109	76 - 120	1	27
Ethylbenzene	5000	5380		ug/Kg		108	77 - 120	1	49
Methyl tert-butyl ether	5000	5360		ug/Kg		107	73 - 120	1	31
1,2,4-Trimethylbenzene	5000	4920		ug/Kg		98	60 - 140	2	50
Naphthalene	5000	4220		ug/Kg		84	74 - 127	7	50
1,3,5-Trimethylbenzene	5000	5140		ug/Kg		103	74 - 133	1	42

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-450852/3-A
Matrix: Solid
Analysis Batch: 451206

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 450852

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			5000	5500		ug/Kg		110	79 - 120	0	37

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*102*		*80 - 120*

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

Lab Sample ID: MB 500-395186/1-A
Matrix: Solid
Analysis Batch: 395211

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		07/31/17 07:09	07/31/17 15:22	1
PCB-1221	<7.3		17	7.3	ug/Kg		07/31/17 07:09	07/31/17 15:22	1
PCB-1232	<7.3		17	7.3	ug/Kg		07/31/17 07:09	07/31/17 15:22	1
PCB-1242	<5.5		17	5.5	ug/Kg		07/31/17 07:09	07/31/17 15:22	1
PCB-1248	<6.6		17	6.6	ug/Kg		07/31/17 07:09	07/31/17 15:22	1
PCB-1254	<3.6		17	3.6	ug/Kg		07/31/17 07:09	07/31/17 15:22	1
PCB-1260	<8.2		17	8.2	ug/Kg		07/31/17 07:09	07/31/17 15:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*91*		*49 - 129*	*07/31/17 07:09*	*07/31/17 15:22*	*1*
DCB Decachlorobiphenyl	*90*		*37 - 121*	*07/31/17 07:09*	*07/31/17 15:22*	*1*

Lab Sample ID: LCS 500-395186/2-A
Matrix: Solid
Analysis Batch: 395211

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395186

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			167	139		ug/Kg		83	57 - 120
PCB-1260			167	150		ug/Kg		90	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*89*		*49 - 129*
DCB Decachlorobiphenyl	*93*		*37 - 121*

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

Lab Sample ID: MB 500-395241/1-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		07/31/17 10:29	07/31/17 15:42	1

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

Lab Sample ID: MB 500-395241/1-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395241

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Nonane	86		44 - 148	07/31/17 10:29	07/31/17 15:42	1

Lab Sample ID: LCS 500-395241/2-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			20.0	19.0		mg/Kg		95	70 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Nonane	88		44 - 148

Lab Sample ID: LCSD 500-395241/3-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 395241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	19.7		mg/Kg		99	70 - 120	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Nonane	88		44 - 148

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-395231/1-A
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Barium	<0.11		1.0	0.11	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Cadmium	<0.036		0.20	0.036	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Chromium	<0.50		1.0	0.50	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Copper	<0.28		1.0	0.28	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Lead	<0.23		0.50	0.23	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Nickel	0.366	J	1.0	0.29	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Selenium	<0.59		1.0	0.59	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Silver	<0.13		0.50	0.13	mg/Kg		07/31/17 10:00	07/31/17 21:35	1
Zinc	<0.88		2.0	0.88	mg/Kg		07/31/17 10:00	07/31/17 21:35	1

Lab Sample ID: LCS 500-395231/2-A
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395231

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			10.0	9.29		mg/Kg		93	80 - 120		

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-395231/2-A
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	200	191		mg/Kg		96	80 - 120
Cadmium	5.00	4.66		mg/Kg		93	80 - 120
Chromium	20.0	19.1		mg/Kg		95	80 - 120
Copper	25.0	24.0		mg/Kg		96	80 - 120
Lead	10.0	8.99		mg/Kg		90	80 - 120
Nickel	50.0	47.9		mg/Kg		96	80 - 120
Selenium	10.0	8.42		mg/Kg		84	80 - 120
Silver	5.00	4.47		mg/Kg		89	80 - 120
Zinc	50.0	47.5		mg/Kg		95	80 - 120

Lab Sample ID: 500-131727-1 MS
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: GP-33 (2-4)
Prep Type: Total/NA
Prep Batch: 395231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.9	F1	10.3	15.7		mg/Kg	☼	75	75 - 125
Barium	47	V	207	252		mg/Kg	☼	99	75 - 125
Cadmium	0.25		5.17	4.83		mg/Kg	☼	89	75 - 125
Chromium	16		20.7	38.0		mg/Kg	☼	105	75 - 125
Copper	20	V	25.9	45.4		mg/Kg	☼	97	75 - 125
Lead	11		10.3	20.1		mg/Kg	☼	90	75 - 125
Nickel	28	B V	51.7	79.6		mg/Kg	☼	101	75 - 125
Selenium	<0.64		10.3	8.39		mg/Kg	☼	81	75 - 125
Silver	<0.14		5.17	4.58		mg/Kg	☼	89	75 - 125
Zinc	67	V	51.7	113		mg/Kg	☼	89	75 - 125

Lab Sample ID: 500-131727-1 MSD
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: GP-33 (2-4)
Prep Type: Total/NA
Prep Batch: 395231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.9	F1	9.95	15.3	F1	mg/Kg	☼	74	75 - 125	3	20
Barium	47	V	199	228		mg/Kg	☼	91	75 - 125	10	20
Cadmium	0.25		4.97	4.67		mg/Kg	☼	89	75 - 125	3	20
Chromium	16		19.9	33.7		mg/Kg	☼	87	75 - 125	12	20
Copper	20	V	24.9	40.5		mg/Kg	☼	82	75 - 125	11	20
Lead	11		9.95	19.5		mg/Kg	☼	87	75 - 125	3	20
Nickel	28	B V	49.7	73.7		mg/Kg	☼	93	75 - 125	8	20
Selenium	<0.64		9.95	8.07		mg/Kg	☼	81	75 - 125	4	20
Silver	<0.14		4.97	4.32		mg/Kg	☼	87	75 - 125	6	20
Zinc	67	V	49.7	120		mg/Kg	☼	107	75 - 125	6	20

Lab Sample ID: 500-131727-1 DU
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: GP-33 (2-4)
Prep Type: Total/NA
Prep Batch: 395231

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	7.9	F1	7.08		mg/Kg	☼	11	20
Barium	47	V	47.0		mg/Kg	☼	0.3	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-131727-1 DU
Matrix: Solid
Analysis Batch: 395374

Client Sample ID: GP-33 (2-4)
Prep Type: Total/NA
Prep Batch: 395231

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Cadmium	0.25		0.241		mg/Kg	☼	5	20
Chromium	16		16.0		mg/Kg	☼	2	20
Copper	20	V	20.5		mg/Kg	☼	1	20
Lead	11		11.5		mg/Kg	☼	6	20
Nickel	28	B V	29.2		mg/Kg	☼	6	20
Selenium	<0.64		<0.66		mg/Kg	☼	NC	20
Silver	<0.14		<0.14		mg/Kg	☼	NC	20
Zinc	67	V	70.6		mg/Kg	☼	5	20

Lab Sample ID: MB 500-395329/1-A
Matrix: Solid
Analysis Batch: 395570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Barium	<0.11		1.0	0.11	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Cadmium	<0.036		0.20	0.036	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Copper	<0.28		1.0	0.28	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Lead	<0.23		0.50	0.23	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Silver	<0.13		0.50	0.13	mg/Kg		08/01/17 08:00	08/01/17 16:27	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/01/17 08:00	08/01/17 16:27	1

Lab Sample ID: LCS 500-395329/2-A
Matrix: Solid
Analysis Batch: 395570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	9.33		mg/Kg		93	80 - 120
Barium	200	192		mg/Kg		96	80 - 120
Cadmium	5.00	4.67		mg/Kg		93	80 - 120
Chromium	20.0	19.3		mg/Kg		97	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	10.0	9.06		mg/Kg		91	80 - 120
Nickel	50.0	47.0		mg/Kg		94	80 - 120
Selenium	10.0	8.56		mg/Kg		86	80 - 120
Silver	5.00	4.65		mg/Kg		93	80 - 120
Zinc	50.0	45.5		mg/Kg		91	80 - 120

Lab Sample ID: MB 500-396248/1-A
Matrix: Solid
Analysis Batch: 396396

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 396248

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		08/07/17 10:10	08/07/17 16:00	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-396248/2-A
Matrix: Solid
Analysis Batch: 396396

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 396248

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	8.78		mg/Kg		88	80 - 120

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-395065/12-A
Matrix: Solid
Analysis Batch: 395300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395065

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		07/31/17 08:05	07/31/17 13:34	1

Lab Sample ID: LCS 500-395065/13-A
Matrix: Solid
Analysis Batch: 395300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395065

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.181		mg/Kg		108	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-33 (2-4)
Date Collected: 07/26/17 08:15
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-33 (2-4)
Date Collected: 07/26/17 08:15
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-1
Matrix: Solid
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 10:58	FKG	TAL NSH
Total/NA	Prep	WI DRO PREP			395241	07/31/17 10:29	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	395285	07/31/17 19:13	PJG	TAL CHI
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 21:43	KML	TAL CHI

Client Sample ID: GP-33 (6-8)
Date Collected: 07/26/17 08:20
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-33 (6-8)
Date Collected: 07/26/17 08:20
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-2
Matrix: Solid
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 11:25	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:04	KML	TAL CHI

Client Sample ID: GP-34 (2-4)
Date Collected: 07/26/17 08:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-34 (2-4)

Lab Sample ID: 500-131727-3
Date Collected: 07/26/17 08:40
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 92.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 11:52	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:08	KML	TAL CHI

Client Sample ID: GP-34 (10-11)

Lab Sample ID: 500-131727-4
Date Collected: 07/26/17 09:00
Matrix: Solid
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-34 (10-11)

Lab Sample ID: 500-131727-4
Date Collected: 07/26/17 09:00
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 88.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 12:19	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:12	KML	TAL CHI

Client Sample ID: GP-35 (2-4)

Lab Sample ID: 500-131727-5
Date Collected: 07/26/17 09:30
Matrix: Solid
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-35 (2-4)

Lab Sample ID: 500-131727-5
Date Collected: 07/26/17 09:30
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 80.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 12:46	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:24	KML	TAL CHI

Client Sample ID: GP-35 (6-8) — **Lab Sample ID: 500-131727-6**
Date Collected: 07/26/17 09:35 — **Matrix: Solid**
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-35 (6-8) — **Lab Sample ID: 500-131727-6**
Date Collected: 07/26/17 09:35 — **Matrix: Solid**
Date Received: 07/27/17 08:50 — **Percent Solids: 85.2**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 13:12	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:28	KML	TAL CHI

Client Sample ID: GP-36 (2-4) — **Lab Sample ID: 500-131727-7**
Date Collected: 07/26/17 10:25 — **Matrix: Solid**
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-36 (2-4) — **Lab Sample ID: 500-131727-7**
Date Collected: 07/26/17 10:25 — **Matrix: Solid**
Date Received: 07/27/17 08:50 — **Percent Solids: 83.0**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			450852	08/07/17 17:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	451206	08/09/17 07:41	FKG	TAL NSH
Total/NA	Prep	3050B			396248	08/07/17 10:10	BDE	TAL CHI
Total/NA	Analysis	6010B		1	396396	08/07/17 17:43	PJ1	TAL CHI

Client Sample ID: GP-39 (2-4) — **Lab Sample ID: 500-131727-13**
Date Collected: 07/26/17 11:50 — **Matrix: Solid**
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-39 (2-4) — **Lab Sample ID: 500-131727-13**
Date Collected: 07/26/17 11:50 — **Matrix: Solid**
Date Received: 07/27/17 08:50 — **Percent Solids: 87.3**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH

Client Sample ID: GP-39 (2-4)

Lab Sample ID: 500-131727-13
Date Collected: 07/26/17 11:50
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	449847	08/03/17 13:39	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:32	KML	TAL CHI

Client Sample ID: GP-40 (2-4)

Lab Sample ID: 500-131727-14
Date Collected: 07/26/17 12:10
Matrix: Solid
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-40 (2-4)

Lab Sample ID: 500-131727-14
Date Collected: 07/26/17 12:10
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 14:06	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:36	KML	TAL CHI

Client Sample ID: GP-40 (6-8)

Lab Sample ID: 500-131727-15
Date Collected: 07/26/17 12:15
Matrix: Solid
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-40 (6-8)

Lab Sample ID: 500-131727-15
Date Collected: 07/26/17 12:15
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 14:33	FKG	TAL NSH
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:40	KML	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-41 (2-4)
Date Collected: 07/26/17 12:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-41 (2-4)
Date Collected: 07/26/17 12:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-16
Matrix: Solid
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			448591	07/28/17 12:52	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	449847	08/03/17 15:00	FKG	TAL NSH
Total/NA	Prep	WI DRO PREP			395241	07/31/17 10:29	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	395285	07/31/17 19:48	PJG	TAL CHI
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:44	KML	TAL CHI

Client Sample ID: GP-43 (2-4)
Date Collected: 07/26/17 13:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-43 (2-4)
Date Collected: 07/26/17 13:40
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-19
Matrix: Solid
Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395117	07/26/17 13:40	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395404	08/01/17 18:59	PJH	TAL CHI
Total/NA	Prep	3541			395186	07/31/17 07:09	STW	TAL CHI
Total/NA	Analysis	8082A		1	395211	07/31/17 18:11	BJH	TAL CHI
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:48	KML	TAL CHI
Total/NA	Prep	7471B			395065	07/31/17 08:05	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395300	07/31/17 14:23	MJD	TAL CHI

Client Sample ID: GP-43 (14-16)
Date Collected: 07/26/17 13:55
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-20
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394847	07/27/17 15:20	LWN	TAL CHI

Client Sample ID: GP-43 (14-16)

Lab Sample ID: 500-131727-20
Date Collected: 07/26/17 13:55
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 87.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395117	07/26/17 13:55	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395404	08/01/17 19:26	PJH	TAL CHI
Total/NA	Prep	3541			395186	07/31/17 07:09	STW	TAL CHI
Total/NA	Analysis	8082A		1	395211	07/31/17 18:26	BJH	TAL CHI
Total/NA	Prep	3050B			395231	07/31/17 10:00	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395374	07/31/17 22:52	KML	TAL CHI
Total/NA	Prep	7471B			395065	07/31/17 08:05	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395300	07/31/17 14:25	MJD	TAL CHI

Client Sample ID: GP-44 (2-4)

Lab Sample ID: 500-131727-21
Date Collected: 07/26/17 14:30
Matrix: Solid
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394850	07/27/17 15:37	LWN	TAL CHI

Client Sample ID: GP-44 (2-4)

Lab Sample ID: 500-131727-21
Date Collected: 07/26/17 14:30
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 86.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395117	07/26/17 14:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395404	08/01/17 19:51	PJH	TAL CHI
Total/NA	Prep	3541			395186	07/31/17 07:09	STW	TAL CHI
Total/NA	Analysis	8082A		1	395211	07/31/17 18:41	BJH	TAL CHI
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 16:42	PJ1	TAL CHI
Total/NA	Prep	7471B			395065	07/31/17 08:05	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395300	07/31/17 14:28	MJD	TAL CHI

Client Sample ID: GP-44 (14-15)

Lab Sample ID: 500-131727-22
Date Collected: 07/26/17 14:50
Matrix: Solid
Date Received: 07/27/17 08:50

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	394850	07/27/17 15:37	LWN	TAL CHI

Client Sample ID: GP-44 (14-15)

Lab Sample ID: 500-131727-22
Date Collected: 07/26/17 14:50
Matrix: Solid
Date Received: 07/27/17 08:50
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395117	07/26/17 14:50	WRE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131727-1

Client Sample ID: GP-44 (14-15)

Date Collected: 07/26/17 14:50
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-22

Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	395404	08/01/17 20:17	PJH	TAL CHI
Total/NA	Prep	3541			395186	07/31/17 07:09	STW	TAL CHI
Total/NA	Analysis	8082A		1	395211	07/31/17 18:56	BJH	TAL CHI
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 16:46	PJ1	TAL CHI
Total/NA	Prep	7471B			395065	07/31/17 08:05	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395300	07/31/17 14:30	MJD	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 07/26/17 00:00
Date Received: 07/27/17 08:50

Lab Sample ID: 500-131727-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395117	07/27/17 00:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395404	08/01/17 20:43	PJH	TAL CHI

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 500-131727-1
Project/Site: Multiple Sites Along STH 50 - 278962

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17 *

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

500-131727 COC

Chain of Custody Record

Lab Job #: 500- 131727

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: (0.7→2.2)(3.2)

Client: TRC
Client Project #: 278962
Project Name: Multiple sites along STH 50
Project Location/State: Kenosha, WI
Lab Project #:
Sampler: M. Kavrlas
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	1	B	1	B					Comments
							Parameter	PAHs + Nap	Lead	GRO	DRO					
1		GP-33 (2-4)	7/26	815	3	S		X	X	X	X					
2		GP-33 (6-8)		820				X	X							
3		GP-34 (2-4)		840				X	X							
4		GP-34 (10-11)		900				X	X							
5		GP-35 (2-4)		930				X	X							
6		GP-35 (6-8)		935				X	X							
7		GP-36 (2-4)		1025				X	X							Hold Sample
8		GP-36 (10-12)		1030				X	X							Hold Sample
9		GP-37 (2-4)		1100				X	X							Hold Sample
10		GP-37 (6-8)		1105				X	X							Hold Sample

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

	Relinquished By	Company	Date	Time	Received By	Company	Date	Time
1		TRC	7/26/17	1630		TA	07/27/17	0850
2								
3								

Lab Courier ☐
Shipped ✓
Hand Delivered ☐

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500- 131727

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler:

Client	Client Project #	Preservative	1	8	1	8	1	8	8		
TRC	278962										
Project Name		**Parameter**									
Multiple sites along STH 50											
Project Location/State	**Lab Project #**										
Kenosha, WI											
Sampler	**Lab PM**										
M. Kahrilas											

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix										Comments
11		GP-38 (2-4)	7/26	1130	3	S	X	X								Hold Sample
12		GP-38 (6-8)		1135			X	X								Hold Sample
13		GP-39 (2-4)		1150			X	X								
14		GP-40 (2-4)		1210			X	X								
15		GP-40 (6-8)		1215			X	X								
16		GP-41 (2-4)		1240			X	X	X	X						
17		GP-42 (2-4)		1255			X	X								Hold Sample
18		GP-42 (6-8)		1300			X	X								Hold Sample
19		GP-43 (2-4)		1340							X	X	X			
20		GP-43 (14-16)		1355							X	X	X			

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Comments

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TRC	7/26/17	1630		TA	07/27/17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped ✓
Hand Delivered

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments

Lab Comments:

TAL-4124 (0604)(1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131727
Chain of Custody Number:
Page 3 of 3
Temperature °C of Cooler:

Client	Client Project #	Preservative	1	B	B						
TRC	278962										
Project Name: Multiple sites along STH 50		Parameter	VOCs	HRCRA Metals	PCBs						
Project Location/State: Kenosha, WI	Lab Project #										
Sampler: M. Kabrick	Lab PM										

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix										Comments
21		GP-44 (2-4)	7/26	1430	3	S	X	X	X							
22		GP-44 (14-15)		1450	3		X	X	X							
23		TRIP BLANK			2		X									

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/26/17	1630	[signature]	TA	07/27/17	0850
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier ☐
Shipped ✓
Hand Delivered ☐

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

Fredrick, Sandie

From: Stapel, Warren <WStapel@trcsolutions.com>
Sent: Friday, August 04, 2017 8:48 AM
To: Fredrick, Sandie; Bergmann, Bryan; Kahrilas, Miranda
Subject: RE: Preliminary TestAmerica report files from 500-131727-1 Multiple Sites Along STH 50 - 278962

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Sandie:

Please have GP-36 2-4 run.

Thank you,
Tyler

From: Fredrick, Sandie [mailto:sandie.fredrick@testamericainc.com]
Sent: Thursday, August 03, 2017 4:45 PM
To: Bergmann, Bryan <BBergmann@trcsolutions.com>; Kahrilas, Miranda <MKahrilas@trcsolutions.com>; Stapel, Warren <WStapel@trcsolutions.com>
Subject: Preliminary TestAmerica report files from 500-131727-1 Multiple Sites Along STH 50 - 278962

Hello All,

PRELIM attached - please let me know on Holds.
Thanks,
Sandie

Attached please find the report files for job 500-131727-1; Multiple Sites Along STH 50 - 278962

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

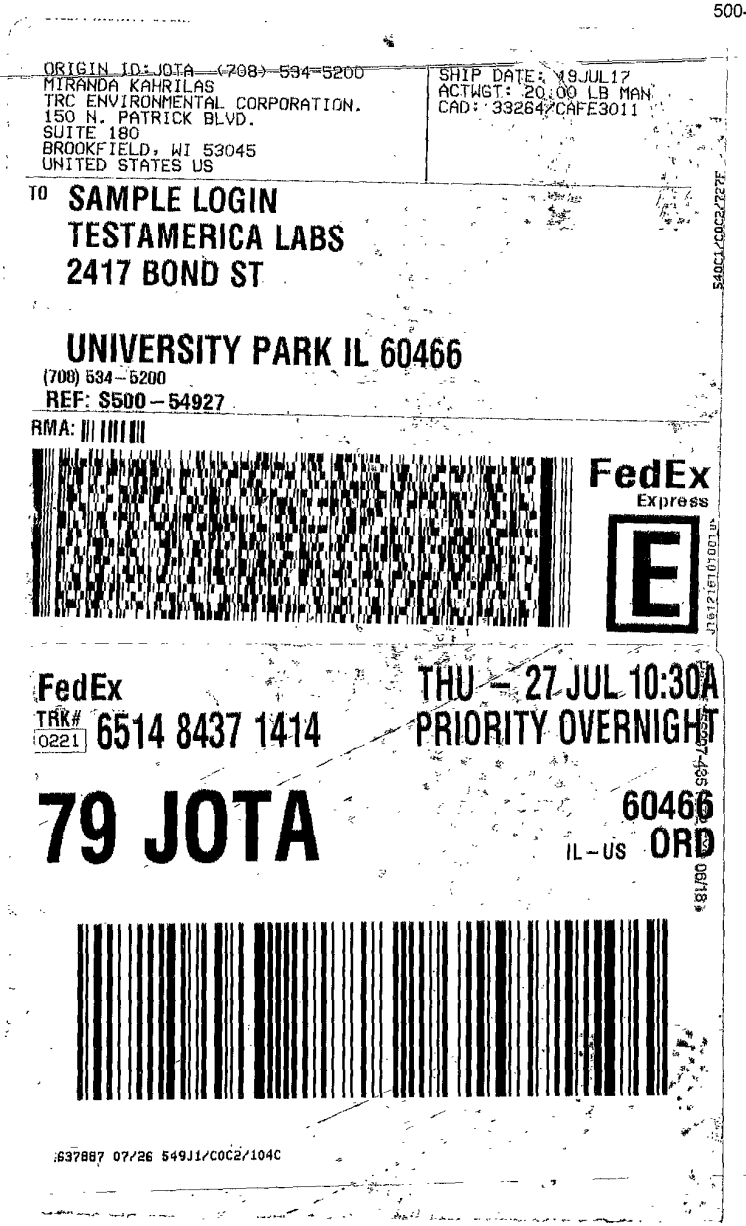
SANDIE J FREDRICK
Project Manager

TestAmerica Chicago
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 920.261.1660
www.testamericainc.com

Reference: [353440]
Attachments: 1

500-131727 Waybill



ORIGIN ID:JOIA (708) 534-5200
MIRANDA KAHRILAS
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 19JUL17
ACTWGT: 20.00 LB MAN
CAD: 33264/CAFE3011

TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx Express

FedEx
TRK# 0221 6514 8437 1414

THU - 27 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US ORD

637887 07/26 549J1/C0C2/104C

ORIGIN ID:JOIA (708) 534-5200
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PRIORITY OVERNIGHT

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#637887 07/26 549J1/C0C2/104C

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-131727 Chain of Custody

Cooler Received/Opened On 07-28-2017 @ 09:10

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____. (2 Hour Window)

1. Tracking # 4446 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID 31470368 pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 0.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? YES...NO...NA Smeared

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) ES

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (initial) ES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ES

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ES

I certify that I attached a label with the unique LIMS number to each container (initial) ES

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# ES

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-131727

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J		COC No: 500-90977.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-131727-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/2/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: WISDOT	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GP-33 (2-4) (500-131727-1)	7/26/17	08:15 Central		Solid			X		1	Plus GRO
GP-33 (6-8) (500-131727-2)	7/26/17	08:20 Central		Solid				X	1	
GP-34 (2-4) (500-131727-3)	7/26/17	08:40 Central		Solid				X	1	
GP-34 (10-11) (500-131727-4)	7/26/17	09:00 Central		Solid				X	1	
GP-35 (2-4) (500-131727-5)	7/26/17	09:30 Central		Solid				X	1	
GP-35 (6-8) (500-131727-6)	7/26/17	09:35 Central		Solid				X	1	
GP-36 (2-4) (500-131727-7)	7/26/17	10:25 Central		Solid				X	1	
GP-36 (10-12) (500-131727-8)	7/26/17	10:30 Central		Solid				X	1	
GP-37 (2-4) (500-131727-9)	7/26/17	11:00 Central		Solid				X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 07/27/17 1600	Company TA	Received by:	Date/Time: 7-28-17 0910	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	Carrier Tracking No(s):	COC No: 500-90977.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-131727-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/2/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: WISDOT	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Loc: 500
131727

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GP-37 (6-8) (500-131727-10)	7/26/17	11:05 Central		Solid				X	1	
GP-38 (2-4) (500-131727-11)	7/26/17	11:30 Central		Solid				X	1	
GP-38 (6-8) (500-131727-12)	7/26/17	11:35 Central		Solid				X	1	
GP-39 (2-4) (500-131727-13)	7/26/17	11:50 Central		Solid				X	1	
GP-40 (2-4) (500-131727-14)	7/26/17	12:10 Central		Solid				X	1	
GP-40 (6-8) (500-131727-15)	7/26/17	12:15 Central		Solid				X	1	
GP-41 (2-4) (500-131727-16)	7/26/17	12:40 Central		Solid			X		1	Plus GRO
GP-42 (2-4) (500-131727-17)	7/26/17	12:55 Central		Solid				X	1	
GP-42 (6-8) (500-131727-18)	7/26/17	13:00 Central		Solid				X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For ____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 7/27/17 1600	Company TA	Received by:	Date/Time: 7-28-17 9:10	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 0.7

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131727-1

Login Number: 131727
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	(2.2)(3.2)c
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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.	True	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131727-1

Login Number: 131727
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 07/28/17 12:02 PM

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.	True	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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.	N/A	
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-131811-1
Client Project/Site: Multiple Sites Along STH 50 - 278962

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
8/25/2017 10:24:11 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Job ID: 500-131811-1

Laboratory: TestAmerica Chicago

Narrative

ob Narrative
500-131811-1

Comments
No additional comments.

Receipt
The samples were received on 7/28/2017 8:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.2º C and 3.3º C.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for 395678 recovered outside control limits for the following analytes: Bromomethane. These analytes were biased high in the LCS and were not detected in the associated samples; 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.

GC/MS Semi VOA
Method(s) 8270D: The following sample contained one acid surrogate outside acceptance limits: (LB 500-395104/1-D). The laboratory's SOP allows one acid and one base surrogate to be outside acceptance limits; therefore, re-extraction was not performed. These results have been reported and qualified.

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

GC VOA
Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-449092 and analytical batch 490-450204.

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

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

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

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

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

Organic Prep
Method(s) WI DRO PREP: WI_DRO_S_Prep. Samples 500-131811-4, 14, and 19 were not received in pre-weighed jars as stated in the Wisconsin DRO method. 25 g of sample was weighed out and extracted.

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

VOA Prep
Method(s) WI GRO: added methanol to provide 1:1 ratio. GP-51 (2-4) (500-131811-11), GP-51 (14-16) (500-131811-12), GP-52 (2-4) (500-131811-13), GP-53 (2-4) (500-131811-14) and GP-54 (2-4) (500-131811-15)

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: GP-46 (2-4) — Lab Sample ID: 500-131811-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	64	J	70	23	ug/Kg	50	☼	8260B	Total/NA
Arsenic	6.4		1.1	0.37	mg/Kg	1	☼	6010B	Total/NA
Barium	67	V	1.1	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.29	B	0.22	0.039	mg/Kg	1	☼	6010B	Total/NA
Chromium	21	F1 F2	1.1	0.53	mg/Kg	1	☼	6010B	Total/NA
Lead	22	F1 F2 V	0.54	0.25	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.042		0.018	0.0060	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-47 (2-4) — Lab Sample ID: 500-131811-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
PCB-1260	110		19	9.5	ug/Kg	1	☼	8082A	Total/NA
PCB-1260	110		19	9.5	ug/Kg	1	☼	8082A	Total/NA
WI Diesel Range Organics (C10-C28)	13		4.7	1.9	mg/Kg	1	☼	WI-DRO	Total/NA
Arsenic	3.4		1.0	0.35	mg/Kg	1	☼	6010B	Total/NA
Barium	36		1.0	0.12	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.85	B	0.20	0.037	mg/Kg	1	☼	6010B	Total/NA
Chromium	17		1.0	0.51	mg/Kg	1	☼	6010B	Total/NA
Copper	83		1.0	0.29	mg/Kg	1	☼	6010B	Total/NA
Lead	160		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA
Nickel	13		1.0	0.30	mg/Kg	1	☼	6010B	Total/NA
Zinc	170		2.0	0.90	mg/Kg	1	☼	6010B	Total/NA
Barium	0.28	J	0.50	0.050	mg/L	1		6010B	TCLP
Cadmium	0.0095		0.0050	0.0020	mg/L	1		6010B	TCLP
Copper	0.040		0.025	0.010	mg/L	1		6010B	TCLP
Lead	0.050		0.050	0.0075	mg/L	1		6010B	TCLP
Nickel	0.020	J	0.025	0.010	mg/L	1		6010B	TCLP
Zinc	0.36		0.10	0.020	mg/L	1		6010B	TCLP
Mercury	0.075		0.020	0.0067	mg/Kg	1	☼	7471B	Total/NA
Flashpoint	>176		40.0	40.0	Degrees F	1		1010	Total/NA
pH	9.4		0.2	0.2	SU	1		9045C	Total/NA
Paint Filter	PASS				No Unit	1		9095A	Total/NA
Specific Gravity	1.9963				NONE	1		SM 2710F	Total/NA

Client Sample ID: GP-47 (6-8) — Lab Sample ID: 500-131811-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		1.1	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	40		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA
Cadmium	0.25	B	0.22	0.040	mg/Kg	1	☼	6010B	Total/NA
Chromium	22		1.1	0.55	mg/Kg	1	☼	6010B	Total/NA
Lead	13		0.55	0.26	mg/Kg	1	☼	6010B	Total/NA
Selenium	0.81	J	1.1	0.65	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.036		0.019	0.0065	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-48 (2-4) — Lab Sample ID: 500-131811-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		1.1	0.38	mg/Kg	1	☼	6010B	Total/NA
Barium	75		1.1	0.13	mg/Kg	1	☼	6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: GP-48 (2-4) (Continued) — Lab Sample ID: 500-131811-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Cadmium	0.34	B	0.22	0.040	mg/Kg	1	☼	6010B	Total/NA
Chromium	21		1.1	0.55	mg/Kg	1	☼	6010B	Total/NA
Lead	25		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA
Mercury	0.0072	J	0.017	0.0057	mg/Kg	1	☼	7471B	Total/NA

Client Sample ID: GP-51 (2-4) — Lab Sample ID: 500-131811-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		0.60	0.28	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-51 (14-16) — Lab Sample ID: 500-131811-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	15		0.52	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-52 (2-4) — Lab Sample ID: 500-131811-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	210	J	310	150	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	28	J	31	18	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	27	J	31	18	ug/Kg	1	☼	WDNR	Total/NA
Lead	12		0.58	0.27	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-53 (2-4) — Lab Sample ID: 500-131811-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.48	0.22	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-54 (2-4) — Lab Sample ID: 500-131811-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-55 (2-4) — Lab Sample ID: 500-131811-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	2800		68	23	ug/Kg	50	☼	8260B	Total/NA
Toluene	10	J	17	9.9	ug/Kg	50	☼	8260B	Total/NA
Lead	36		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-55 (6-8) — Lab Sample ID: 500-131811-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	30	J	64	21	ug/Kg	50	☼	8260B	Total/NA
Lead	10		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-56 (0-2) — Lab Sample ID: 500-131811-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	30		14	8.2	ug/Kg	50	☼	8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: GP-56 (0-2) (Continued) — Lab Sample ID: 500-131811-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	20		14	10	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	69		56	19	ug/Kg	50	☼	8260B	Total/NA
Xylenes, Total	25	J	28	12	ug/Kg	50	☼	8260B	Total/NA
Lead	15		0.47	0.22	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-56 (4-6) — Lab Sample ID: 500-131811-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloroethane	13000		74	26	ug/Kg	50	☼	8260B	Total/NA
1,3,5-Trimethylbenzene	13000		74	28	ug/Kg	50	☼	8260B	Total/NA
Benzene	700		19	11	ug/Kg	50	☼	8260B	Total/NA
Isopropylbenzene	2000		74	29	ug/Kg	50	☼	8260B	Total/NA
Naphthalene	8700		74	25	ug/Kg	50	☼	8260B	Total/NA
n-Butylbenzene	5400		74	29	ug/Kg	50	☼	8260B	Total/NA
N-Propylbenzene	8700		74	31	ug/Kg	50	☼	8260B	Total/NA
p-Isopropyltoluene	490		74	27	ug/Kg	50	☼	8260B	Total/NA
sec-Butylbenzene	910		74	30	ug/Kg	50	☼	8260B	Total/NA
Toluene	230		19	11	ug/Kg	50	☼	8260B	Total/NA
1,2,4-Trimethylbenzene - DL	51000		740	270	ug/Kg	500	☼	8260B	Total/NA
Ethylbenzene - DL	26000		190	140	ug/Kg	500	☼	8260B	Total/NA
Xylenes, Total - DL	41000		370	160	ug/Kg	500	☼	8260B	Total/NA
WI Gasoline Range Organics (C5-C10)	1200000		220000	74000	ug/Kg	5000	☼	WI-GRO	Total/NA
WI Diesel Range Organics (C10-C28)	140		9.9	4.0	mg/Kg	2	☼	WI-DRO	Total/NA
Lead	16		0.57	0.27	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-57 (0-2) — Lab Sample ID: 500-131811-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	12		0.54	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-57 (4-6) — Lab Sample ID: 500-131811-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-58 (2-4) — Lab Sample ID: 500-131811-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-58 (6-8) — Lab Sample ID: 500-131811-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-131811-24

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-GRO	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL CHI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL CHI
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
7471B	Mercury (CVAA)	SW846	TAL CHI
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL CHI
9014	Cyanide	SW846	TAL CHI
9034	Sulfide, Acid soluble and Insoluble (Titrimetric)	SW846	TAL CHI
9045C	pH	SW846	TAL CHI
9095A	Paint Filter	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
SM 2710F	Specific Gravity, Density	SM	TAL CHI
% Chlorine	General Sub Contract Method	NONE	SFAL

Protocol References:

EPA = US Environmental Protection Agency
NONE = NONE
SM = "Standard Methods For The Examination Of Water And Wastewater",
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.
WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151
TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-131811-3	GP-46 (2-4)	Solid	07/27/17 08:15	07/28/17 08:45
500-131811-4	GP-47 (2-4)	Solid	07/27/17 09:00	07/28/17 08:45
500-131811-5	GP-47 (6-8)	Solid	07/27/17 09:05	07/28/17 08:45
500-131811-6	GP-48 (2-4)	Solid	07/27/17 09:15	07/28/17 08:45
500-131811-11	GP-51 (2-4)	Solid	07/27/17 11:30	07/28/17 08:45
500-131811-12	GP-51 (14-16)	Solid	07/27/17 11:40	07/28/17 08:45
500-131811-13	GP-52 (2-4)	Solid	07/27/17 11:15	07/28/17 08:45
500-131811-14	GP-53 (2-4)	Solid	07/27/17 12:00	07/28/17 08:45
500-131811-15	GP-54 (2-4)	Solid	07/27/17 12:05	07/28/17 08:45
500-131811-16	GP-55 (2-4)	Solid	07/27/17 13:00	07/28/17 08:45
500-131811-17	GP-55 (6-8)	Solid	07/27/17 13:05	07/28/17 08:45
500-131811-18	GP-56 (0-2)	Solid	07/27/17 13:35	07/28/17 08:45
500-131811-19	GP-56 (4-6)	Solid	07/27/17 13:40	07/28/17 08:45
500-131811-20	GP-57 (0-2)	Solid	07/27/17 14:10	07/28/17 08:45
500-131811-21	GP-57 (4-6)	Solid	07/27/17 14:25	07/28/17 08:45
500-131811-22	GP-58 (2-4)	Solid	07/27/17 14:30	07/28/17 08:45
500-131811-23	GP-58 (6-8)	Solid	07/27/17 14:35	07/28/17 08:45
500-131811-24	Trip Blank	Solid	07/27/17 00:00	07/28/17 08:45

Client Sample ID: GP-46 (2-4)
Date Collected: 07/27/17 08:15
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-3
Matrix: Solid
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		70	32	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,1,1-Trichloroethane	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,1-Dichloroethane	<29		70	29	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,1-Dichloroethene	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,1-Dichloropropene	<21		70	21	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2,3-Trichloropropane	<29		70	29	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2-Dibromoethane	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2-Dichloroethane	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,2-Dichloropropane	<30		70	30	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,3,5-Trimethylbenzene	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,3-Dichloropropane	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
1,4-Dichlorobenzene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
2,2-Dichloropropane	<31		70	31	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
2-Chlorotoluene	<22		70	22	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
4-Chlorotoluene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Benzene	<10		18	10	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Bromobenzene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Bromochloromethane	<30		70	30	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Bromodichloromethane	<26		70	26	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Bromoform	<34		70	34	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Bromomethane	<56	*	140	56	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Carbon tetrachloride	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Chlorobenzene	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Chloroethane	<35		70	35	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Chloroform	<26		140	26	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Chloromethane	<22		70	22	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
cis-1,2-Dichloroethene	<29		70	29	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Dibromochloromethane	<34		70	34	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Dibromomethane	<19		70	19	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Dichlorodifluoromethane	<47		140	47	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Ethylbenzene	<13		18	13	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Hexachlorobutadiene	<31		70	31	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Isopropyl ether	<19		70	19	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Isopropylbenzene	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Methyl tert-butyl ether	<28		70	28	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Methylene Chloride	<110		350	110	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Naphthalene	**64**	**J**	70	23	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
n-Butylbenzene	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
N-Propylbenzene	<29		70	29	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
p-Isopropyltoluene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50

Client Sample ID: GP-46 (2-4)

Lab Sample ID: 500-131811-3
Date Collected: 07/27/17 08:15
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 82.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<28		70	28	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Styrene	<27		70	27	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
tert-Butylbenzene	<28		70	28	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Tetrachloroethene	<26		70	26	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Toluene	<10		18	10	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
trans-1,2-Dichloroethene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Trichloroethene	<11		35	11	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Trichlorofluoromethane	<30		70	30	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Vinyl chloride	<18		35	18	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50
Xylenes, Total	<15		35	15	ug/Kg	☼	07/27/17 08:15	08/03/17 00:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*07/27/17 08:15*	*08/03/17 00:05*	*50*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/27/17 08:15*	*08/03/17 00:05*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*07/27/17 08:15*	*08/03/17 00:05*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*07/27/17 08:15*	*08/03/17 00:05*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.4**		1.1	0.37	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1
Barium	**67**	**V**	1.1	0.12	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1
Cadmium	**0.29**	**B**	0.22	0.039	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1
Chromium	**21**	**F1 F2**	1.1	0.53	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1
Lead	**22**	**F1 F2 V**	0.54	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1
Selenium	<0.63	F1	1.1	0.63	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1
Silver	<0.14		0.54	0.14	mg/Kg	☼	08/02/17 09:20	08/02/17 20:58	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.042**		0.018	0.0060	mg/Kg	☼	07/31/17 16:50	08/01/17 09:08	1

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-131811-4
Date Collected: 07/27/17 09:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		70	32	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,1,1-Trichloroethane	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,1,2,2-Tetrachloroethane	<28		70	28	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,1,2-Trichloroethane	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,1-Dichloroethane	<29		70	29	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,1-Dichloroethene	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,1-Dichloropropene	<21		70	21	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2,3-Trichlorobenzene	<32		70	32	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2,3-Trichloropropane	<29		70	29	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2,4-Trichlorobenzene	<24		70	24	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2,4-Trimethylbenzene	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: GP-47 (2-4)
Date Collected: 07/27/17 09:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-4
Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2-Dichlorobenzene	<23		70	23	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2-Dichloroethane	<28		70	28	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,2-Dichloropropane	<30		70	30	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,3,5-Trimethylbenzene	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,3-Dichlorobenzene	<28		70	28	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,3-Dichloropropane	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
1,4-Dichlorobenzene	<26		70	26	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
2,2-Dichloropropane	<31		70	31	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
2-Chlorotoluene	<22		70	22	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
4-Chlorotoluene	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Benzene	<10		18	10	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Bromobenzene	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Bromochloromethane	<30		70	30	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Bromodichloromethane	<26		70	26	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Bromoform	<34		70	34	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Bromomethane	<56	*	140	56	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Carbon tetrachloride	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Chlorobenzene	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Chloroethane	<35		70	35	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Chloroform	<26		140	26	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Chloromethane	<22		70	22	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
cis-1,2-Dichloroethene	<29		70	29	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
cis-1,3-Dichloropropene	<29		70	29	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Dibromochloromethane	<34		70	34	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Dibromomethane	<19		70	19	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Dichlorodifluoromethane	<47		140	47	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Ethylbenzene	<13		18	13	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Hexachlorobutadiene	<31		70	31	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Isopropyl ether	<19		70	19	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Isopropylbenzene	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Methyl tert-butyl ether	<28		70	28	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Methylene Chloride	<110		350	110	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Naphthalene	<23		70	23	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
n-Butylbenzene	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
N-Propylbenzene	<29		70	29	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
p-Isopropyltoluene	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
sec-Butylbenzene	<28		70	28	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Styrene	<27		70	27	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
tert-Butylbenzene	<28		70	28	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Tetrachloroethene	<26		70	26	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Toluene	<10		18	10	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
trans-1,2-Dichloroethene	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
trans-1,3-Dichloropropene	<25		70	25	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Trichloroethene	<12		35	12	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Trichlorofluoromethane	<30		70	30	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Vinyl chloride	<18		35	18	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50
Xylenes, Total	<15		35	15	ug/Kg	☼	07/27/17 09:00	08/03/17 00:30	50

Client Sample ID: GP-47 (2-4)
Date Collected: 07/27/17 09:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-4
Matrix: Solid
Percent Solids: 82.6

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*93*		*75 - 126*	*07/27/17 09:00*	*08/03/17 00:30*	*50*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/27/17 09:00*	*08/03/17 00:30*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*07/27/17 09:00*	*08/03/17 00:30*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 09:00*	*08/03/17 00:30*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
Benzene	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
Chloroform	<0.020		0.040	0.020	mg/L			08/03/17 17:00	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/03/17 17:00	20
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/03/17 17:00	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*08/03/17 17:00*	*20*
4-Bromofluorobenzene (Surr)	*111*		*72 - 124*		*08/03/17 17:00*	*20*
Dibromofluoromethane	*98*		*75 - 120*		*08/03/17 17:00*	*20*
Toluene-d8 (Surr)	*100*		*75 - 120*		*08/03/17 17:00*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/02/17 01:53	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		08/01/17 08:17	08/02/17 01:53	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		08/01/17 08:17	08/02/17 01:53	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		08/01/17 08:17	08/02/17 01:53	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/02/17 01:53	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/02/17 01:53	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		08/01/17 08:17	08/02/17 01:53	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		08/01/17 08:17	08/02/17 01:53	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		08/01/17 08:17	08/02/17 01:53	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		08/01/17 08:17	08/02/17 01:53	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		08/01/17 08:17	08/02/17 01:53	1
Pyridine	<0.20		0.20	0.20	mg/L		08/01/17 08:17	08/02/17 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*94*		*40 - 145*	*08/01/17 08:17*	*08/02/17 01:53*	*1*
2-Fluorobiphenyl	*84*		*34 - 110*	*08/01/17 08:17*	*08/02/17 01:53*	*1*
2-Fluorophenol (Surr)	*50*		*27 - 110*	*08/01/17 08:17*	*08/02/17 01:53*	*1*
Nitrobenzene-d5 (Surr)	*76*		*36 - 120*	*08/01/17 08:17*	*08/02/17 01:53*	*1*
Phenol-d5 (Surr)	*22*		*20 - 100*	*08/01/17 08:17*	*08/02/17 01:53*	*1*
Terphenyl-d14 (Surr)	*122*		*40 - 145*	*08/01/17 08:17*	*08/02/17 01:53*	*1*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<700		2100	700	ug/Kg	☼	07/27/17 09:00	08/07/17 01:36	50

Client Sample ID: GP-47 (2-4)

Date Collected: 07/27/17 09:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-4

Matrix: Solid
Percent Solids: 82.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<6.9		19	6.9	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1016	<6.9		19	6.9	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1221	<8.5		19	8.5	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1232	<8.4		19	8.4	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1242	<6.4		19	6.4	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1242	<6.4		19	6.4	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1248	<7.6		19	7.6	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1254	<4.2		19	4.2	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1260	**110**		19	9.5	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1
PCB-1260	**110**		19	9.5	ug/Kg	☼	08/02/17 07:13	08/02/17 22:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*49 - 129*	*08/02/17 07:13*	*08/02/17 22:24*	*1*
Tetrachloro-m-xylene	*90*		*49 - 129*	*08/02/17 07:13*	*08/02/17 22:24*	*1*
DCB Decachlorobiphenyl	*87*		*37 - 121*	*08/02/17 07:13*	*08/02/17 22:24*	*1*
DCB Decachlorobiphenyl	*87*		*37 - 121*	*08/02/17 07:13*	*08/02/17 22:24*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**13**		4.7	1.9	mg/Kg	☼	07/31/17 10:29	07/31/17 20:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*84*		*44 - 148*	*07/31/17 10:29*	*07/31/17 20:24*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.4**		1.0	0.35	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Barium	**36**		1.0	0.12	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Cadmium	**0.85**	**B**	0.20	0.037	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Chromium	**17**		1.0	0.51	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Copper	**83**		1.0	0.29	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Lead	**160**		0.51	0.24	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Nickel	**13**		1.0	0.30	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Selenium	<0.60		1.0	0.60	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Silver	<0.13		0.51	0.13	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1
Zinc	**170**		2.0	0.90	mg/Kg	☼	08/02/17 09:20	08/02/17 21:18	1

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/31/17 08:06	07/31/17 17:30	1
Barium	**0.28**	**J**	0.50	0.050	mg/L		07/31/17 08:06	07/31/17 17:30	1
Cadmium	**0.0095**		0.0050	0.0020	mg/L		07/31/17 08:06	07/31/17 17:30	1
Chromium	<0.010		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 17:30	1
Copper	**0.040**		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 17:30	1
Lead	**0.050**		0.050	0.0075	mg/L		07/31/17 08:06	07/31/17 17:30	1
Nickel	**0.020**	**J**	0.025	0.010	mg/L		07/31/17 08:06	07/31/17 17:30	1

Client Sample ID: GP-47 (2-4)

Date Collected: 07/27/17 09:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-4

Matrix: Solid
Percent Solids: 82.6

Method: 6010B - Metals (ICP) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	<0.020		0.050	0.020	mg/L		07/31/17 08:06	07/31/17 17:30	1
Silver	<0.010		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 17:30	1
Zinc	**0.36**		0.10	0.020	mg/L		07/31/17 08:06	07/31/17 17:30	1

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/17 14:15	08/01/17 09:14	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.075**		0.020	0.0067	mg/Kg	☼	07/31/17 16:50	08/01/17 09:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	**>176**		40.0	40.0	Degrees F			08/01/17 17:20	1
Cyanide, Total	<0.15		0.43	0.15	mg/Kg		08/03/17 09:55	08/03/17 17:22	1
Sulfide	<4.6		9.7	4.6	mg/Kg		08/01/17 11:45	08/01/17 14:24	1
pH	**9.4**		0.2	0.2	SU			08/07/17 15:21	1
Paint Filter	**PASS**				No Unit			08/03/17 22:25	1
Specific Gravity	**1.9963**				NONE			08/03/17 22:00	1

Client Sample ID: GP-47 (6-8)

Date Collected: 07/27/17 09:05
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-5

Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		76	35	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,1,1-Trichloroethane	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,1,2,2-Tetrachloroethane	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,1,2-Trichloroethane	<27		76	27	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,1-Dichloroethane	<31		76	31	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,1-Dichloroethene	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,1-Dichloropropene	<23		76	23	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2,3-Trichlorobenzene	<35		76	35	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2,3-Trichloropropane	<31		76	31	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2,4-Trichlorobenzene	<26		76	26	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2,4-Trimethylbenzene	<27		76	27	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2-Dibromoethane	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2-Dichlorobenzene	<25		76	25	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2-Dichloroethane	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,2-Dichloropropane	<32		76	32	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,3,5-Trimethylbenzene	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,3-Dichlorobenzene	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,3-Dichloropropane	<27		76	27	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
1,4-Dichlorobenzene	<28		76	28	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
2,2-Dichloropropane	<34		76	34	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
2-Chlorotoluene	<24		76	24	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
4-Chlorotoluene	<26		76	26	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50

Client Sample ID: GP-47 (6-8)
Date Collected: 07/27/17 09:05
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-5
Matrix: Solid
Percent Solids: 80.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<11		19	11	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Bromobenzene	<27		76	27	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Bromochloromethane	<32		76	32	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Bromodichloromethane	<28		76	28	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Bromoform	<37		76	37	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Bromomethane	<60	*	150	60	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Carbon tetrachloride	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Chlorobenzene	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Chloroethane	<38		76	38	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Chloroform	<28		150	28	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Chloromethane	<24		76	24	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
cis-1,2-Dichloroethene	<31		76	31	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
cis-1,3-Dichloropropene	<31		76	31	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Dibromochloromethane	<37		76	37	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Dibromomethane	<20		76	20	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Dichlorodifluoromethane	<51		150	51	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Ethylbenzene	<14		19	14	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Hexachlorobutadiene	<34		76	34	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Isopropyl ether	<21		76	21	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Isopropylbenzene	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Methyl tert-butyl ether	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Methylene Chloride	<120		380	120	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Naphthalene	<25		76	25	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
n-Butylbenzene	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
N-Propylbenzene	<31		76	31	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
p-Isopropyltoluene	<27		76	27	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
sec-Butylbenzene	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Styrene	<29		76	29	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
tert-Butylbenzene	<30		76	30	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Tetrachloroethene	<28		76	28	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Toluene	<11		19	11	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
trans-1,2-Dichloroethene	<26		76	26	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
trans-1,3-Dichloropropene	<27		76	27	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Trichloroethene	<12		38	12	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Trichlorofluoromethane	<32		76	32	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Vinyl chloride	<20		38	20	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50
Xylenes, Total	<17		38	17	ug/Kg	☼	07/27/17 09:05	08/03/17 00:55	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*	*07/27/17 09:05*	*08/03/17 00:55*	*50*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*07/27/17 09:05*	*08/03/17 00:55*	*50*
Dibromofluoromethane	*89*		*75 - 120*	*07/27/17 09:05*	*08/03/17 00:55*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 09:05*	*08/03/17 00:55*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**3.1**		1.1	0.38	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1
Barium	**40**		1.1	0.13	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1
Cadmium	**0.25**	**B**	0.22	0.040	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1
Chromium	**22**		1.1	0.55	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1

Client Sample ID: GP-47 (6-8)

Date Collected: 07/27/17 09:05
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-5

Matrix: Solid
Percent Solids: 80.4

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**13**		0.55	0.26	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1
Selenium	**0.81**	**J**	1.1	0.65	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1
Silver	<0.14		0.55	0.14	mg/Kg	☼	08/02/17 09:20	08/02/17 21:22	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.036**		0.019	0.0065	mg/Kg	☼	07/31/17 16:50	08/01/17 09:13	1

Client Sample ID: GP-48 (2-4)

Date Collected: 07/27/17 09:15
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-6

Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		67	31	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,1,1-Trichloroethane	<25		67	25	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,1,2,2-Tetrachloroethane	<27		67	27	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,1,2-Trichloroethane	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,1-Dichloroethane	<27		67	27	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,1-Dichloroethene	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,1-Dichloropropene	<20		67	20	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2,3-Trichlorobenzene	<31		67	31	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2,3-Trichloropropane	<28		67	28	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2,4-Trichlorobenzene	<23		67	23	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2,4-Trimethylbenzene	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2-Dibromoethane	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2-Dichlorobenzene	<22		67	22	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2-Dichloroethane	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,2-Dichloropropane	<29		67	29	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,3,5-Trimethylbenzene	<25		67	25	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,3-Dichlorobenzene	<27		67	27	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,3-Dichloropropane	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
1,4-Dichlorobenzene	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
2,2-Dichloropropane	<30		67	30	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
2-Chlorotoluene	<21		67	21	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
4-Chlorotoluene	<23		67	23	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Benzene	<9.8		17	9.8	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Bromobenzene	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Bromochloromethane	<29		67	29	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Bromodichloromethane	<25		67	25	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Bromoform	<32		67	32	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Bromomethane	<53	*	130	53	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Carbon tetrachloride	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Chlorobenzene	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Chloroethane	<34		67	34	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Chloroform	<25		130	25	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Chloromethane	<21		67	21	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
cis-1,2-Dichloroethene	<27		67	27	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
cis-1,3-Dichloropropene	<28		67	28	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50

Client Sample ID: GP-48 (2-4)
Date Collected: 07/27/17 09:15
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-6
Matrix: Solid
Percent Solids: 84.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	<33		67	33	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Dibromomethane	<18		67	18	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Dichlorodifluoromethane	<45		130	45	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Ethylbenzene	<12		17	12	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Hexachlorobutadiene	<30		67	30	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Isopropyl ether	<18		67	18	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Isopropylbenzene	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Methyl tert-butyl ether	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Methylene Chloride	<110		330	110	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Naphthalene	<22		67	22	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
n-Butylbenzene	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
N-Propylbenzene	<28		67	28	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
p-Isopropyltoluene	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
sec-Butylbenzene	<27		67	27	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Styrene	<26		67	26	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
tert-Butylbenzene	<27		67	27	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Tetrachloroethene	<25		67	25	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Toluene	<9.8		17	9.8	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
trans-1,2-Dichloroethene	<23		67	23	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
trans-1,3-Dichloropropene	<24		67	24	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Trichloroethene	<11		33	11	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Trichlorofluoromethane	<29		67	29	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Vinyl chloride	<18		33	18	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50
Xylenes, Total	<15		33	15	ug/Kg	☼	07/27/17 09:15	08/03/17 01:20	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*	*07/27/17 09:15*	*08/03/17 01:20*	*50*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*	*07/27/17 09:15*	*08/03/17 01:20*	*50*
Dibromofluoromethane	*92*		*75 - 120*	*07/27/17 09:15*	*08/03/17 01:20*	*50*
Toluene-d8 (Surr)	*86*		*75 - 120*	*07/27/17 09:15*	*08/03/17 01:20*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.2**		1.1	0.38	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1
Barium	**75**		1.1	0.13	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1
Cadmium	**0.34**	**B**	0.22	0.040	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1
Chromium	**21**		1.1	0.55	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1
Lead	**25**		0.56	0.26	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1
Selenium	<0.66		1.1	0.66	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1
Silver	<0.14		0.56	0.14	mg/Kg	☼	08/02/17 09:20	08/02/17 21:26	1

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.0072**	**J**	0.017	0.0057	mg/Kg	☼	07/31/17 16:50	08/01/17 09:20	1

Client Sample ID: GP-51 (2-4)

Lab Sample ID: 500-131811-11
Date Collected: 07/27/17 11:30
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 80.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
Ethylbenzene	<24		32	24	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
Naphthalene	<150		320	150	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
Toluene	<21		32	21	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1
Xylenes, Total	<38		95	38	ug/Kg	☼	07/31/17 10:21	08/04/17 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*80 - 120*	*07/31/17 10:21*	*08/04/17 16:16*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**20**		0.60	0.28	mg/Kg	☼	08/02/17 09:20	08/02/17 21:38	1

Client Sample ID: GP-51 (14-16)

Lab Sample ID: 500-131811-12
Date Collected: 07/27/17 11:40
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 86.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
Ethylbenzene	<21		28	21	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
Naphthalene	<130		280	130	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
Toluene	<19		28	19	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1
Xylenes, Total	<34		84	34	ug/Kg	☼	07/31/17 10:21	08/04/17 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*80 - 120*	*07/31/17 10:21*	*08/04/17 16:42*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		0.52	0.24	mg/Kg	☼	08/02/17 09:20	08/02/17 21:42	1

Client Sample ID: GP-52 (2-4)

Lab Sample ID: 500-131811-13
Date Collected: 07/27/17 11:15
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 83.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		31	22	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1
Ethylbenzene	<23		31	23	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1
Naphthalene	**210**	**J**	310	150	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1
Toluene	<21		31	21	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1
1,2,4-Trimethylbenzene	**28**	**J**	31	18	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1
1,3,5-Trimethylbenzene	**27**	**J**	31	18	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1

Client Sample ID: GP-52 (2-4) — Lab Sample ID: 500-131811-13

Date Collected: 07/27/17 11:15 — **Matrix: Solid**
Date Received: 07/28/17 08:45 — **Percent Solids: 83.7**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<37		92	37	ug/Kg	☼	07/31/17 10:21	08/04/17 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*80 - 120*	*07/31/17 10:21*	*08/04/17 17:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		0.58	0.27	mg/Kg	☼	08/02/17 09:20	08/02/17 21:46	1

Client Sample ID: GP-53 (2-4) — Lab Sample ID: 500-131811-14

Date Collected: 07/27/17 12:00 — **Matrix: Solid**
Date Received: 07/28/17 08:45 — **Percent Solids: 93.3**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Benzene	<19		27	19	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Ethylbenzene	<20		27	20	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Naphthalene	<130		270	130	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Toluene	<18		27	18	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Xylenes, Total	<32		80	32	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1
Wisconsin GRO	<2700		5300	2700	ug/Kg	☼	07/31/17 10:21	08/04/17 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*80 - 120*	*07/31/17 10:21*	*08/04/17 17:36*	*1*
a,a,a-Trifluorotoluene	*94*		*80 - 120*	*07/31/17 10:21*	*08/04/17 17:36*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.7		4.2	1.7	mg/Kg	☼	07/31/17 10:29	07/31/17 22:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*86*		*44 - 148*	*07/31/17 10:29*	*07/31/17 22:09*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.48	0.22	mg/Kg	☼	08/02/17 09:20	08/02/17 21:50	1

Client Sample ID: GP-54 (2-4) — Lab Sample ID: 500-131811-15

Date Collected: 07/27/17 12:05 — **Matrix: Solid**
Date Received: 07/28/17 08:45 — **Percent Solids: 84.2**

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1
Ethylbenzene	<23		30	23	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1
Naphthalene	<150		300	150	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1
Toluene	<21		30	21	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1

Client Sample ID: GP-54 (2-4)

Lab Sample ID: 500-131811-15
Date Collected: 07/27/17 12:05
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 84.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1
Xylenes, Total	<36		91	36	ug/Kg	☼	07/31/17 10:21	08/04/17 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*80 - 120*	*07/31/17 10:21*	*08/04/17 18:03*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10		0.53	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 21:54	1

Client Sample ID: GP-55 (2-4)

Lab Sample ID: 500-131811-16
Date Collected: 07/27/17 13:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<31		68	31	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,1,1-Trichloroethane	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,1,2,2-Tetrachloroethane	<27		68	27	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,1,2-Trichloroethane	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,1-Dichloroethane	<28		68	28	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,1-Dichloroethene	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,1-Dichloropropene	<20		68	20	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2,3-Trichlorobenzene	<31		68	31	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2,3-Trichloropropane	<28		68	28	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2,4-Trichlorobenzene	<23		68	23	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2,4-Trimethylbenzene	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2-Dibromo-3-Chloropropane	<130		340	130	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2-Dibromoethane	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2-Dichlorobenzene	<23		68	23	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2-Dichloroethane	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,2-Dichloropropane	<29		68	29	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,3,5-Trimethylbenzene	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,3-Dichlorobenzene	<27		68	27	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,3-Dichloropropane	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
1,4-Dichlorobenzene	<25		68	25	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
2,2-Dichloropropane	<30		68	30	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
2-Chlorotoluene	<21		68	21	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
4-Chlorotoluene	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Benzene	<9.9		17	9.9	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Bromobenzene	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Bromochloromethane	<29		68	29	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Bromodichloromethane	<25		68	25	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Bromoform	<33		68	33	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Bromomethane	<54	*	140	54	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Carbon tetrachloride	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Chlorobenzene	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Chloroethane	<34		68	34	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Chloroform	<25		140	25	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50

Client Sample ID: GP-55 (2-4)

Lab Sample ID: 500-131811-16

Date Collected: 07/27/17 13:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 85.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<22		68	22	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
cis-1,2-Dichloroethene	<28		68	28	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
cis-1,3-Dichloropropene	<28		68	28	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Dibromochloromethane	<33		68	33	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Dibromomethane	<18		68	18	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Dichlorodifluoromethane	<46		140	46	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Ethylbenzene	<12		17	12	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Hexachlorobutadiene	<30		68	30	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Isopropyl ether	<19		68	19	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Isopropylbenzene	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Methyl tert-butyl ether	<27		68	27	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Methylene Chloride	<110		340	110	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Naphthalene	**2800**		68	23	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
n-Butylbenzene	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
N-Propylbenzene	<28		68	28	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
p-Isopropyltoluene	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
sec-Butylbenzene	<27		68	27	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Styrene	<26		68	26	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
tert-Butylbenzene	<27		68	27	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Tetrachloroethene	<25		68	25	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Toluene	**10**	**J**	17	9.9	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
trans-1,2-Dichloroethene	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
trans-1,3-Dichloropropene	<24		68	24	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Trichloroethene	<11		34	11	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Trichlorofluoromethane	<29		68	29	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Vinyl chloride	<18		34	18	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50
Xylenes, Total	<15		34	15	ug/Kg	☼	07/27/17 13:00	08/03/17 01:45	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*95*		*75 - 126*	*07/27/17 13:00*	*08/03/17 01:45*	*50*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*	*07/27/17 13:00*	*08/03/17 01:45*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*07/27/17 13:00*	*08/03/17 01:45*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 13:00*	*08/03/17 01:45*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**36**		0.56	0.26	mg/Kg	☼	08/02/17 09:20	08/02/17 21:58	1

Client Sample ID: GP-55 (6-8)

Lab Sample ID: 500-131811-17

Date Collected: 07/27/17 13:05
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		64	30	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,1,1-Trichloroethane	<24		64	24	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,1,2,2-Tetrachloroethane	<26		64	26	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,1,2-Trichloroethane	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,1-Dichloroethane	<26		64	26	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,1-Dichloroethene	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50

Client Sample ID: GP-55 (6-8)
Date Collected: 07/27/17 13:05
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-17
Matrix: Solid
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloropropene	<19		64	19	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2,3-Trichlorobenzene	<29		64	29	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2,3-Trichloropropane	<27		64	27	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2,4-Trichlorobenzene	<22		64	22	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2,4-Trimethylbenzene	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2-Dibromo-3-Chloropropane	<130		320	130	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2-Dibromoethane	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2-Dichlorobenzene	<21		64	21	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2-Dichloroethane	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,2-Dichloropropane	<27		64	27	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,3,5-Trimethylbenzene	<24		64	24	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,3-Dichlorobenzene	<26		64	26	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,3-Dichloropropane	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
1,4-Dichlorobenzene	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
2,2-Dichloropropane	<28		64	28	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
2-Chlorotoluene	<20		64	20	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
4-Chlorotoluene	<22		64	22	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Benzene	<9.4		16	9.4	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Bromobenzene	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Bromochloromethane	<27		64	27	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Bromodichloromethane	<24		64	24	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Bromoform	<31		64	31	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Bromomethane	<51	*	130	51	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Carbon tetrachloride	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Chlorobenzene	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Chloroethane	<32		64	32	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Chloroform	<24		130	24	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Chloromethane	<21		64	21	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
cis-1,2-Dichloroethene	<26		64	26	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
cis-1,3-Dichloropropene	<27		64	27	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Dibromochloromethane	<31		64	31	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Dibromomethane	<17		64	17	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Dichlorodifluoromethane	<43		130	43	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Ethylbenzene	<12		16	12	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Hexachlorobutadiene	<29		64	29	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Isopropyl ether	<18		64	18	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Isopropylbenzene	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Methyl tert-butyl ether	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Methylene Chloride	<100		320	100	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Naphthalene	**30**	**J**	64	21	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
n-Butylbenzene	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
N-Propylbenzene	<27		64	27	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
p-Isopropyltoluene	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
sec-Butylbenzene	<26		64	26	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Styrene	<25		64	25	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
tert-Butylbenzene	<26		64	26	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Tetrachloroethene	<24		64	24	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Toluene	<9.4		16	9.4	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
trans-1,2-Dichloroethene	<22		64	22	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50

Client Sample ID: GP-55 (6-8)

Lab Sample ID: 500-131811-17
Date Collected: 07/27/17 13:05
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 87.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<23		64	23	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Trichloroethene	<11		32	11	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Trichlorofluoromethane	<27		64	27	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Vinyl chloride	<17		32	17	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50
Xylenes, Total	<14		32	14	ug/Kg	☼	07/27/17 13:05	08/03/17 02:10	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*	*07/27/17 13:05*	*08/03/17 02:10*	*50*
4-Bromofluorobenzene (Surr)	*94*		*72 - 124*	*07/27/17 13:05*	*08/03/17 02:10*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*07/27/17 13:05*	*08/03/17 02:10*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 13:05*	*08/03/17 02:10*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.53	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 22:02	1

Client Sample ID: GP-56 (0-2)

Lab Sample ID: 500-131811-18
Date Collected: 07/27/17 13:35
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<26		56	26	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,1,1-Trichloroethane	<21		56	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,1,2,2-Tetrachloroethane	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,1,2-Trichloroethane	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,1-Dichloroethane	<23		56	23	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,1-Dichloroethene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,1-Dichloropropene	<17		56	17	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2,3-Trichlorobenzene	<26		56	26	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2,3-Trichloropropane	<23		56	23	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2,4-Trichlorobenzene	<19		56	19	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2,4-Trimethylbenzene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2-Dibromo-3-Chloropropane	<110		280	110	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2-Dibromoethane	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2-Dichlorobenzene	<19		56	19	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2-Dichloroethane	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,2-Dichloropropane	<24		56	24	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,3,5-Trimethylbenzene	<21		56	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,3-Dichlorobenzene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,3-Dichloropropane	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
1,4-Dichlorobenzene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
2,2-Dichloropropane	<25		56	25	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
2-Chlorotoluene	<18		56	18	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
4-Chlorotoluene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Benzene	**30**		14	8.2	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Bromobenzene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Bromochloromethane	<24		56	24	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Bromodichloromethane	<21		56	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Bromoform	<27		56	27	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50

Client Sample ID: GP-56 (0-2)

Lab Sample ID: 500-131811-18

Date Collected: 07/27/17 13:35
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 94.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<44	*	110	44	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Carbon tetrachloride	<21		56	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Chlorobenzene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Chloroethane	<28		56	28	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Chloroform	<21		110	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Chloromethane	<18		56	18	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
cis-1,2-Dichloroethene	<23		56	23	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
cis-1,3-Dichloropropene	<23		56	23	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Dibromochloromethane	<27		56	27	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Dibromomethane	<15		56	15	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Dichlorodifluoromethane	<38		110	38	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Ethylbenzene	**20**		14	10	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Hexachlorobutadiene	<25		56	25	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Isopropyl ether	<15		56	15	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Isopropylbenzene	<21		56	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Methyl tert-butyl ether	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Methylene Chloride	<91		280	91	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Naphthalene	**69**		56	19	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
n-Butylbenzene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
N-Propylbenzene	<23		56	23	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
p-Isopropyltoluene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
sec-Butylbenzene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Styrene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
tert-Butylbenzene	<22		56	22	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Tetrachloroethene	<21		56	21	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Toluene	<8.2		14	8.2	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
trans-1,2-Dichloroethene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
trans-1,3-Dichloropropene	<20		56	20	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Trichloroethene	<9.2		28	9.2	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Trichlorofluoromethane	<24		56	24	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Vinyl chloride	<15		28	15	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50
Xylenes, Total	**25**	**J**	28	12	ug/Kg	☼	07/27/17 13:35	08/03/17 02:35	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*	*07/27/17 13:35*	*08/03/17 02:35*	*50*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/27/17 13:35*	*08/03/17 02:35*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*07/27/17 13:35*	*08/03/17 02:35*	*50*
Toluene-d8 (Surr)	*92*		*75 - 120*	*07/27/17 13:35*	*08/03/17 02:35*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**15**		0.47	0.22	mg/Kg	☼	08/02/17 09:20	08/02/17 22:06	1

Client Sample ID: GP-56 (4-6)

Lab Sample ID: 500-131811-19

Date Collected: 07/27/17 13:40
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<34		74	34	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50

Client Sample ID: GP-56 (4-6)
Date Collected: 07/27/17 13:40
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-19
Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<28		74	28	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,1,2,2-Tetrachloroethane	<30		74	30	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,1,2-Trichloroethane	**13000**		74	26	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,1-Dichloroethane	<31		74	31	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,1-Dichloroethene	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,1-Dichloropropene	<22		74	22	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2,3-Trichlorobenzene	<34		74	34	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2,3-Trichloropropane	<31		74	31	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2,4-Trichlorobenzene	<25		74	25	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2-Dibromo-3-Chloropropane	<150		370	150	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2-Dibromoethane	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2-Dichlorobenzene	<25		74	25	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2-Dichloroethane	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,2-Dichloropropane	<32		74	32	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,3,5-Trimethylbenzene	**13000**		74	28	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,3-Dichlorobenzene	<30		74	30	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,3-Dichloropropane	<27		74	27	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
1,4-Dichlorobenzene	<27		74	27	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
2,2-Dichloropropane	<33		74	33	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
2-Chlorotoluene	<23		74	23	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
4-Chlorotoluene	<26		74	26	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Benzene	**700**		19	11	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Bromobenzene	<26		74	26	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Bromochloromethane	<32		74	32	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Bromodichloromethane	<28		74	28	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Bromoform	<36		74	36	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Bromomethane	<59	*	150	59	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Carbon tetrachloride	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Chlorobenzene	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Chloroethane	<37		74	37	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Chloroform	<28		150	28	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Chloromethane	<24		74	24	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
cis-1,2-Dichloroethene	<30		74	30	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
cis-1,3-Dichloropropene	<31		74	31	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Dibromochloromethane	<36		74	36	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Dibromomethane	<20		74	20	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Dichlorodifluoromethane	<50		150	50	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Hexachlorobutadiene	<33		74	33	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Isopropyl ether	<21		74	21	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Isopropylbenzene	**2000**		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Methyl tert-butyl ether	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Methylene Chloride	<120		370	120	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Naphthalene	**8700**		74	25	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
n-Butylbenzene	**5400**		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
N-Propylbenzene	**8700**		74	31	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
p-Isopropyltoluene	**490**		74	27	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
sec-Butylbenzene	**910**		74	30	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Styrene	<29		74	29	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
tert-Butylbenzene	<30		74	30	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50

Client Sample ID: GP-56 (4-6)

Date Collected: 07/27/17 13:40
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-19

Matrix: Solid
Percent Solids: 80.3

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<28		74	28	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Toluene	**230**		19	11	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
trans-1,2-Dichloroethene	<26		74	26	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
trans-1,3-Dichloropropene	<27		74	27	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Trichloroethene	<12		37	12	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Trichlorofluoromethane	<32		74	32	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50
Vinyl chloride	<19		37	19	ug/Kg	☼	07/27/17 13:40	08/03/17 03:00	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*07/27/17 13:40*	*08/03/17 03:00*	*50*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/27/17 13:40*	*08/03/17 03:00*	*50*
Dibromofluoromethane	*98*		*75 - 120*	*07/27/17 13:40*	*08/03/17 03:00*	*50*
Toluene-d8 (Surr)	*103*		*75 - 120*	*07/27/17 13:40*	*08/03/17 03:00*	*50*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	**51000**		740	270	ug/Kg	☼	07/27/17 13:40	08/03/17 03:25	500
Ethylbenzene	**26000**		190	140	ug/Kg	☼	07/27/17 13:40	08/03/17 03:25	500
Xylenes, Total	**41000**		370	160	ug/Kg	☼	07/27/17 13:40	08/03/17 03:25	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*102*		*75 - 126*	*07/27/17 13:40*	*08/03/17 03:25*	*500*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*	*07/27/17 13:40*	*08/03/17 03:25*	*500*
Dibromofluoromethane	*95*		*75 - 120*	*07/27/17 13:40*	*08/03/17 03:25*	*500*
Toluene-d8 (Surr)	*93*		*75 - 120*	*07/27/17 13:40*	*08/03/17 03:25*	*500*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	**1200000**		220000	74000	ug/Kg	☼	07/27/17 13:40	08/07/17 02:12	5000

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	**140**		9.9	4.0	mg/Kg	☼	07/31/17 10:29	08/01/17 10:14	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*142*		*44 - 148*	*07/31/17 10:29*	*08/01/17 10:14*	*2*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**16**		0.57	0.27	mg/Kg	☼	08/02/17 09:20	08/02/17 22:10	1

Client Sample ID: GP-57 (0-2)

Date Collected: 07/27/17 14:10
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-20

Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<28		60	28	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,1,1-Trichloroethane	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,1,2,2-Tetrachloroethane	<24		60	24	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50

Client Sample ID: GP-57 (0-2)
Date Collected: 07/27/17 14:10
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-20
Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<21		60	21	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,1-Dichloroethane	<25		60	25	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,1-Dichloroethene	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,1-Dichloropropene	<18		60	18	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2,3-Trichlorobenzene	<28		60	28	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2,3-Trichloropropane	<25		60	25	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2,4-Trichlorobenzene	<21		60	21	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2,4-Trimethylbenzene	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2-Dibromo-3-Chloropropane	<120		300	120	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2-Dibromoethane	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2-Dichlorobenzene	<20		60	20	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2-Dichloroethane	<24		60	24	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,2-Dichloropropane	<26		60	26	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,3,5-Trimethylbenzene	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,3-Dichlorobenzene	<24		60	24	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,3-Dichloropropane	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
1,4-Dichlorobenzene	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
2,2-Dichloropropane	<27		60	27	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
2-Chlorotoluene	<19		60	19	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
4-Chlorotoluene	<21		60	21	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Benzene	<8.8		15	8.8	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Bromobenzene	<21		60	21	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Bromochloromethane	<26		60	26	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Bromodichloromethane	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Bromoform	<29		60	29	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Bromomethane	<48	*	120	48	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Carbon tetrachloride	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Chlorobenzene	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Chloroethane	<30		60	30	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Chloroform	<22		120	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Chloromethane	<19		60	19	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
cis-1,2-Dichloroethene	<25		60	25	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
cis-1,3-Dichloropropene	<25		60	25	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Dibromochloromethane	<29		60	29	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Dibromomethane	<16		60	16	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Dichlorodifluoromethane	<41		120	41	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Ethylbenzene	<11		15	11	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Hexachlorobutadiene	<27		60	27	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Isopropyl ether	<17		60	17	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Isopropylbenzene	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Methyl tert-butyl ether	<24		60	24	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Methylene Chloride	<98		300	98	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Naphthalene	<20		60	20	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
n-Butylbenzene	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
N-Propylbenzene	<25		60	25	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
p-Isopropyltoluene	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
sec-Butylbenzene	<24		60	24	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Styrene	<23		60	23	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
tert-Butylbenzene	<24		60	24	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50

Client Sample ID: GP-57 (0-2)

Date Collected: 07/27/17 14:10
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-20

Matrix: Solid
Percent Solids: 89.6

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Toluene	<8.9		15	8.9	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
trans-1,2-Dichloroethene	<21		60	21	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
trans-1,3-Dichloropropene	<22		60	22	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Trichloroethene	<9.9		30	9.9	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Trichlorofluoromethane	<26		60	26	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Vinyl chloride	<16		30	16	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50
Xylenes, Total	<13		30	13	ug/Kg	☼	07/27/17 14:10	08/03/17 03:50	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*100*		*75 - 126*	*07/27/17 14:10*	*08/03/17 03:50*	*50*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*	*07/27/17 14:10*	*08/03/17 03:50*	*50*
Dibromofluoromethane	*93*		*75 - 120*	*07/27/17 14:10*	*08/03/17 03:50*	*50*
Toluene-d8 (Surr)	*90*		*75 - 120*	*07/27/17 14:10*	*08/03/17 03:50*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**12**		0.54	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 22:14	1

Client Sample ID: GP-57 (4-6)

Date Collected: 07/27/17 14:25
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-21

Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<30		66	30	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,1,1-Trichloroethane	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,1,2,2-Tetrachloroethane	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,1,2-Trichloroethane	<23		66	23	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,1-Dichloroethane	<27		66	27	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,1-Dichloroethene	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,1-Dichloropropene	<20		66	20	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2,3-Trichlorobenzene	<30		66	30	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2,3-Trichloropropane	<27		66	27	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2,4-Trichlorobenzene	<23		66	23	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2,4-Trimethylbenzene	<24		66	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2-Dibromo-3-Chloropropane	<130		330	130	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2-Dibromoethane	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2-Dichlorobenzene	<22		66	22	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2-Dichloroethane	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,2-Dichloropropane	<28		66	28	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,3,5-Trimethylbenzene	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,3-Dichlorobenzene	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,3-Dichloropropane	<24		66	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
1,4-Dichlorobenzene	<24		66	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
2,2-Dichloropropane	<29		66	29	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
2-Chlorotoluene	<21		66	21	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
4-Chlorotoluene	<23		66	23	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Benzene	<9.6		16	9.6	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Bromobenzene	<23		66	23	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50

Client Sample ID: GP-57 (4-6)
Date Collected: 07/27/17 14:25
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-21
Matrix: Solid
Percent Solids: 86.8

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	<28		66	28	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Bromodichloromethane	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Bromoform	<32		66	32	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Bromomethane	<52	*	130	52	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Carbon tetrachloride	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Chlorobenzene	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Chloroethane	<33		66	33	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Chloroform	<24		130	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Chloromethane	<21		66	21	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
cis-1,2-Dichloroethene	<27		66	27	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
cis-1,3-Dichloropropene	<27		66	27	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Dibromochloromethane	<32		66	32	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Dibromomethane	<18		66	18	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Dichlorodifluoromethane	<44		130	44	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Ethylbenzene	<12		16	12	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Hexachlorobutadiene	<29		66	29	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Isopropyl ether	<18		66	18	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Isopropylbenzene	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Methyl tert-butyl ether	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Methylene Chloride	<110		330	110	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Naphthalene	<22		66	22	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
n-Butylbenzene	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
N-Propylbenzene	<27		66	27	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
p-Isopropyltoluene	<24		66	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
sec-Butylbenzene	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Styrene	<25		66	25	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
tert-Butylbenzene	<26		66	26	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Tetrachloroethene	<24		66	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Toluene	<9.7		16	9.7	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
trans-1,2-Dichloroethene	<23		66	23	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
trans-1,3-Dichloropropene	<24		66	24	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Trichloroethene	<11		33	11	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Trichlorofluoromethane	<28		66	28	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Vinyl chloride	<17		33	17	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50
Xylenes, Total	<15		33	15	ug/Kg	☼	07/27/17 14:25	08/03/17 04:15	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*	*07/27/17 14:25*	*08/03/17 04:15*	*50*
4-Bromofluorobenzene (Surr)	*96*		*72 - 124*	*07/27/17 14:25*	*08/03/17 04:15*	*50*
Dibromofluoromethane	*95*		*75 - 120*	*07/27/17 14:25*	*08/03/17 04:15*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 14:25*	*08/03/17 04:15*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.9		0.51	0.24	mg/Kg	☼	08/02/17 09:20	08/02/17 22:26	1

Client Sample ID: GP-58 (2-4)
Date Collected: 07/27/17 14:30
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-22
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<35		76	35	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,1,1-Trichloroethane	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,1,2,2-Tetrachloroethane	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,1,2-Trichloroethane	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,1-Dichloroethane	<31		76	31	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,1-Dichloroethene	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,1-Dichloropropene	<23		76	23	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2,3-Trichlorobenzene	<35		76	35	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2,3-Trichloropropane	<31		76	31	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2,4-Trichlorobenzene	<26		76	26	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2,4-Trimethylbenzene	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2-Dibromo-3-Chloropropane	<150		380	150	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2-Dibromoethane	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2-Dichlorobenzene	<25		76	25	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2-Dichloroethane	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,2-Dichloropropane	<32		76	32	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,3,5-Trimethylbenzene	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,3-Dichlorobenzene	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,3-Dichloropropane	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
1,4-Dichlorobenzene	<28		76	28	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
2,2-Dichloropropane	<34		76	34	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
2-Chlorotoluene	<24		76	24	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
4-Chlorotoluene	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Benzene	<11		19	11	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Bromobenzene	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Bromochloromethane	<32		76	32	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Bromodichloromethane	<28		76	28	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Bromoform	<37		76	37	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Bromomethane	<60	*	150	60	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Carbon tetrachloride	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Chlorobenzene	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Chloroethane	<38		76	38	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Chloroform	<28		150	28	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Chloromethane	<24		76	24	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
cis-1,2-Dichloroethene	<31		76	31	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
cis-1,3-Dichloropropene	<32		76	32	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Dibromochloromethane	<37		76	37	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Dibromomethane	<20		76	20	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Dichlorodifluoromethane	<51		150	51	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Ethylbenzene	<14		19	14	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Hexachlorobutadiene	<34		76	34	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Isopropyl ether	<21		76	21	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Isopropylbenzene	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Methyl tert-butyl ether	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Methylene Chloride	<120		380	120	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Naphthalene	<25		76	25	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
n-Butylbenzene	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
N-Propylbenzene	<31		76	31	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
p-Isopropyltoluene	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50

Client Sample ID: GP-58 (2-4)

Date Collected: 07/27/17 14:30
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-22
Matrix: Solid
Percent Solids: 79.1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Styrene	<29		76	29	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
tert-Butylbenzene	<30		76	30	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Tetrachloroethene	<28		76	28	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Toluene	<11		19	11	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
trans-1,2-Dichloroethene	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
trans-1,3-Dichloropropene	<27		76	27	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Trichloroethene	<12		38	12	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Trichlorofluoromethane	<32		76	32	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Vinyl chloride	<20		38	20	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50
Xylenes, Total	<17		38	17	ug/Kg	☼	07/27/17 14:30	08/03/17 04:40	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*	*07/27/17 14:30*	*08/03/17 04:40*	*50*
4-Bromofluorobenzene (Surr)	*95*		*72 - 124*	*07/27/17 14:30*	*08/03/17 04:40*	*50*
Dibromofluoromethane	*90*		*75 - 120*	*07/27/17 14:30*	*08/03/17 04:40*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 14:30*	*08/03/17 04:40*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**18**		0.55	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 22:30	1

Client Sample ID: GP-58 (6-8)

Date Collected: 07/27/17 14:35
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-23
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<32		69	32	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,1,1-Trichloroethane	<26		69	26	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,1,2,2-Tetrachloroethane	<28		69	28	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,1,2-Trichloroethane	<24		69	24	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,1-Dichloroethane	<28		69	28	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,1-Dichloroethene	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,1-Dichloropropene	<21		69	21	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2,3-Trichlorobenzene	<32		69	32	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2,3-Trichloropropane	<29		69	29	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2,4-Trichlorobenzene	<24		69	24	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2,4-Trimethylbenzene	<25		69	25	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2-Dibromo-3-Chloropropane	<140		350	140	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2-Dibromoethane	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2-Dichlorobenzene	<23		69	23	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2-Dichloroethane	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,2-Dichloropropane	<30		69	30	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,3,5-Trimethylbenzene	<26		69	26	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,3-Dichlorobenzene	<28		69	28	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,3-Dichloropropane	<25		69	25	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
1,4-Dichlorobenzene	<25		69	25	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
2,2-Dichloropropane	<31		69	31	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
2-Chlorotoluene	<22		69	22	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50

Client Sample ID: GP-58 (6-8)
Date Collected: 07/27/17 14:35
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-23
Matrix: Solid
Percent Solids: 83.4

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	<24		69	24	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Benzene	<10		17	10	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Bromobenzene	<25		69	25	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Bromochloromethane	<30		69	30	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Bromodichloromethane	<26		69	26	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Bromoform	<34		69	34	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Bromomethane	<55	*	140	55	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Carbon tetrachloride	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Chlorobenzene	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Chloroethane	<35		69	35	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Chloroform	<26		140	26	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Chloromethane	<22		69	22	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
cis-1,2-Dichloroethene	<28		69	28	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
cis-1,3-Dichloropropene	<29		69	29	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Dibromochloromethane	<34		69	34	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Dibromomethane	<19		69	19	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Dichlorodifluoromethane	<47		140	47	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Ethylbenzene	<13		17	13	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Hexachlorobutadiene	<31		69	31	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Isopropyl ether	<19		69	19	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Isopropylbenzene	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Methyl tert-butyl ether	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Methylene Chloride	<110		350	110	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Naphthalene	<23		69	23	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
n-Butylbenzene	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
N-Propylbenzene	<29		69	29	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
p-Isopropyltoluene	<25		69	25	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
sec-Butylbenzene	<28		69	28	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Styrene	<27		69	27	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
tert-Butylbenzene	<28		69	28	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Tetrachloroethene	<26		69	26	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Toluene	<10		17	10	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
trans-1,2-Dichloroethene	<24		69	24	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
trans-1,3-Dichloropropene	<25		69	25	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Trichloroethene	<11		35	11	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Trichlorofluoromethane	<30		69	30	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Vinyl chloride	<18		35	18	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50
Xylenes, Total	<15		35	15	ug/Kg	☼	07/27/17 14:35	08/03/17 05:05	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*92*		*75 - 126*	*07/27/17 14:35*	*08/03/17 05:05*	*50*
4-Bromofluorobenzene (Surr)	*93*		*72 - 124*	*07/27/17 14:35*	*08/03/17 05:05*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*07/27/17 14:35*	*08/03/17 05:05*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 14:35*	*08/03/17 05:05*	*50*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		0.55	0.25	mg/Kg	☼	08/02/17 09:20	08/02/17 22:34	1

Client Sample ID: Trip Blank
Date Collected: 07/27/17 00:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-24
Matrix: Solid
Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<23		50	23	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,1,1-Trichloroethane	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,1,2,2-Tetrachloroethane	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,1,2-Trichloroethane	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,1-Dichloroethane	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,1-Dichloroethene	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,1-Dichloropropene	<15		50	15	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2,3-Trichlorobenzene	<23		50	23	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2,3-Trichloropropane	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2,4-Trichlorobenzene	<17		50	17	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2,4-Trimethylbenzene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2-Dibromo-3-Chloropropane	<100		250	100	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2-Dibromoethane	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2-Dichlorobenzene	<17		50	17	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2-Dichloroethane	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,2-Dichloropropane	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,3,5-Trimethylbenzene	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,3-Dichlorobenzene	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,3-Dichloropropane	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
1,4-Dichlorobenzene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
2,2-Dichloropropane	<22		50	22	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
2-Chlorotoluene	<16		50	16	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
4-Chlorotoluene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Benzene	<7.3		13	7.3	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Bromobenzene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Bromochloromethane	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Bromodichloromethane	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Bromoform	<24		50	24	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Bromomethane	<40	*	100	40	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Carbon tetrachloride	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Chlorobenzene	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Chloroethane	<25		50	25	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Chloroform	<19		100	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Chloromethane	<16		50	16	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
cis-1,2-Dichloroethene	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
cis-1,3-Dichloropropene	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Dibromochloromethane	<24		50	24	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Dibromomethane	<14		50	14	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Dichlorodifluoromethane	<34		100	34	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Ethylbenzene	<9.2		13	9.2	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Hexachlorobutadiene	<22		50	22	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Isopropyl ether	<14		50	14	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Isopropylbenzene	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Methyl tert-butyl ether	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Methylene Chloride	<82		250	82	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Naphthalene	<17		50	17	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
n-Butylbenzene	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
N-Propylbenzene	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
p-Isopropyltoluene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50

Client Sample ID: Trip Blank
Date Collected: 07/27/17 00:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-24
Matrix: Solid
Percent Solids: 100.0

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Styrene	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
tert-Butylbenzene	<20		50	20	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Tetrachloroethene	<19		50	19	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Toluene	<7.4		13	7.4	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
trans-1,2-Dichloroethene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
trans-1,3-Dichloropropene	<18		50	18	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Trichloroethene	<8.2		25	8.2	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Trichlorofluoromethane	<21		50	21	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Vinyl chloride	<13		25	13	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50
Xylenes, Total	<11		25	11	ug/Kg	☼	07/27/17 00:00	08/03/17 05:30	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*94*		*75 - 126*	*07/27/17 00:00*	*08/03/17 05:30*	*50*
4-Bromofluorobenzene (Surr)	*92*		*72 - 124*	*07/27/17 00:00*	*08/03/17 05:30*	*50*
Dibromofluoromethane	*91*		*75 - 120*	*07/27/17 00:00*	*08/03/17 05:30*	*50*
Toluene-d8 (Surr)	*89*		*75 - 120*	*07/27/17 00:00*	*08/03/17 05:30*	*50*

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TestAmerica Laboratories, Inc.
Attention: Sandie Fredrick
2417 Bond St
University Park,IL 44720

Date Received: 08/01/2017
Date Reported: **08/04/17 12:28**
Client Project: Soil/Waste
Client Project ID: 50010540
PO# 2669273
Project #: 50010540

Certificate of Analysis

This analytical test report shall not be reproduced, except in full, without written permission from Eurofins S-F Analytical Laboratories.
All quality control samples and checks were within acceptance limits unless otherwise indicated. Test results pertain only to those items tested. All samples were in good condition when received by the laboratory unless otherwise noted. All LOD/LOQs are adjusted to reflect dilutions.

DNR #	Analyte	Result Wet Wt.	LOD Wet Wt.	Result Dry Wt.	LOD Dry Wt.	LOQ Dry Wt.	Units	Dilution Factor	Date Prepared	Date Analyzed	Method	Notes
1708003-01	**GP-47 (2-4) 500-131881-4**						**Date Collected: 07/27/2017**					
	Preparation: SW-846 5050 1994						Prepared By: P84Z		Analyzed By:	P84Z		
	Chlorine as Cl	0.0216	0.00131	0.0245	0.00148	0.00474	% Wt.	1	8/2/17	08/02/17	ASTM D808	
									Analyzed By:	YT09	SM2540G 1997	
	Solids			Result: 88.22			% Wt.		8/2/17	08/03/17		

This report was prepared and printed by:

Josh Rhein, Chemistry Operations Manager

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| ISO/IEC-17025:2005 Accredited A2LA Cert # 4204.01 | State of Wisconsin Dept of Natural Resources Certified Laboratory Id: 241249360 |

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
V	Serial Dilution exceeds the control limits
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
F3	Duplicate RPD exceeds the control limit
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

GC/MS VOA

Prep Batch: 395116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	5035	
500-131811-4	GP-47 (2-4)	Total/NA	Solid	WI GRO	
500-131811-5	GP-47 (6-8)	Total/NA	Solid	5035	
500-131811-6	GP-48 (2-4)	Total/NA	Solid	5035	
500-131811-16	GP-55 (2-4)	Total/NA	Solid	5035	
500-131811-17	GP-55 (6-8)	Total/NA	Solid	5035	
500-131811-18	GP-56 (0-2)	Total/NA	Solid	5035	
500-131811-19 - DL	GP-56 (4-6)	Total/NA	Solid	WI GRO	
500-131811-19	GP-56 (4-6)	Total/NA	Solid	WI GRO	
500-131811-20	GP-57 (0-2)	Total/NA	Solid	5035	
500-131811-21	GP-57 (4-6)	Total/NA	Solid	5035	
500-131811-22	GP-58 (2-4)	Total/NA	Solid	5035	
500-131811-23	GP-58 (6-8)	Total/NA	Solid	5035	
500-131811-24	Trip Blank	Total/NA	Solid	5035	
500-131811-23 MS	GP-58 (6-8)	Total/NA	Solid	5035	
500-131811-23 MSD	GP-58 (6-8)	Total/NA	Solid	5035	

Leach Batch: 395624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	1311	
LB 500-395624/1-A	Method Blank	TCLP	Solid	1311	

Analysis Batch: 395678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	8260B	395116
500-131811-4	GP-47 (2-4)	Total/NA	Solid	8260B	395116
500-131811-5	GP-47 (6-8)	Total/NA	Solid	8260B	395116
500-131811-6	GP-48 (2-4)	Total/NA	Solid	8260B	395116
500-131811-16	GP-55 (2-4)	Total/NA	Solid	8260B	395116
500-131811-17	GP-55 (6-8)	Total/NA	Solid	8260B	395116
500-131811-18	GP-56 (0-2)	Total/NA	Solid	8260B	395116
500-131811-19	GP-56 (4-6)	Total/NA	Solid	8260B	395116
500-131811-19 - DL	GP-56 (4-6)	Total/NA	Solid	8260B	395116
500-131811-20	GP-57 (0-2)	Total/NA	Solid	8260B	395116
500-131811-21	GP-57 (4-6)	Total/NA	Solid	8260B	395116
500-131811-22	GP-58 (2-4)	Total/NA	Solid	8260B	395116
500-131811-23	GP-58 (6-8)	Total/NA	Solid	8260B	395116
500-131811-24	Trip Blank	Total/NA	Solid	8260B	395116
MB 500-395678/6	Method Blank	Total/NA	Solid	8260B	
LCS 500-395678/4	Lab Control Sample	Total/NA	Solid	8260B	
500-131811-23 MS	GP-58 (6-8)	Total/NA	Solid	8260B	395116
500-131811-23 MSD	GP-58 (6-8)	Total/NA	Solid	8260B	395116

Analysis Batch: 395703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	8260B	395624
LB 500-395624/1-A	Method Blank	TCLP	Solid	8260B	395624
MB 500-395703/7	Method Blank	Total/NA	Solid	8260B	
LCS 500-395703/5	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 395104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	1311	
LB 500-395104/1-D	Method Blank	TCLP	Solid	1311	
500-131811-4 MS	GP-47 (2-4)	TCLP	Solid	1311	

Prep Batch: 395370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	3510C	395104
LB 500-395104/1-D	Method Blank	TCLP	Solid	3510C	395104
MB 500-395370/1-A	Method Blank	Total/NA	Solid	3510C	
LCS 500-395370/2-A	Lab Control Sample	Total/NA	Solid	3510C	
500-131811-4 MS	GP-47 (2-4)	TCLP	Solid	3510C	395104

Analysis Batch: 395460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	8270D	395370
LB 500-395104/1-D	Method Blank	TCLP	Solid	8270D	395370
MB 500-395370/1-A	Method Blank	Total/NA	Solid	8270D	395370
LCS 500-395370/2-A	Lab Control Sample	Total/NA	Solid	8270D	395370
500-131811-4 MS	GP-47 (2-4)	TCLP	Solid	8270D	395370

GC VOA

Prep Batch: 395116

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	WI GRO	
500-131811-19	GP-56 (4-6)	Total/NA	Solid	WI GRO	
LB3 500-395116/21-A	Method Blank	Total/NA	Solid	5035	
LCS 500-395116/23-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 500-395116/24-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 396126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	WI-GRO	395116
500-131811-19	GP-56 (4-6)	Total/NA	Solid	WI-GRO	395116
LB3 500-395116/21-A	Method Blank	Total/NA	Solid	WI-GRO	395116
LCS 500-395116/23-A	Lab Control Sample	Total/NA	Solid	WI-GRO	395116
LCSD 500-395116/24-A	Lab Control Sample Dup	Total/NA	Solid	WI-GRO	395116

Prep Batch: 449092

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-11	GP-51 (2-4)	Total/NA	Solid	WI GRO	
500-131811-12	GP-51 (14-16)	Total/NA	Solid	WI GRO	
500-131811-13	GP-52 (2-4)	Total/NA	Solid	WI GRO	
500-131811-14	GP-53 (2-4)	Total/NA	Solid	WI GRO	
500-131811-15	GP-54 (2-4)	Total/NA	Solid	WI GRO	
MB 490-449092/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-449092/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-449092/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

GC VOA (Continued)

Analysis Batch: 450204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-11	GP-51 (2-4)	Total/NA	Solid	WDNR	449092
500-131811-12	GP-51 (14-16)	Total/NA	Solid	WDNR	449092
500-131811-13	GP-52 (2-4)	Total/NA	Solid	WDNR	449092
500-131811-14	GP-53 (2-4)	Total/NA	Solid	WDNR	449092
500-131811-15	GP-54 (2-4)	Total/NA	Solid	WDNR	449092
MB 490-449092/1-A	Method Blank	Total/NA	Solid	WDNR	449092
LCS 490-449092/2-A	Lab Control Sample	Total/NA	Solid	WDNR	449092
LCSD 490-449092/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	449092

GC Semi VOA

Prep Batch: 395241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131811-14	GP-53 (2-4)	Total/NA	Solid	WI DRO PREP	
500-131811-19	GP-56 (4-6)	Total/NA	Solid	WI DRO PREP	
MB 500-395241/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-395241/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-395241/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

Analysis Batch: 395285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	WI-DRO	395241
500-131811-14	GP-53 (2-4)	Total/NA	Solid	WI-DRO	395241
500-131811-19	GP-56 (4-6)	Total/NA	Solid	WI-DRO	395241
MB 500-395241/1-A	Method Blank	Total/NA	Solid	WI-DRO	395241
LCS 500-395241/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	395241
LCSD 500-395241/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	395241

Prep Batch: 395540

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	3541	
MB 500-395540/1-A	Method Blank	Total/NA	Solid	3541	
LCS 500-395540/3-A	Lab Control Sample	Total/NA	Solid	3541	

Analysis Batch: 395598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	8082A	395540
MB 500-395540/1-A	Method Blank	Total/NA	Solid	8082A	395540
LCS 500-395540/3-A	Lab Control Sample	Total/NA	Solid	8082A	395540

Metals

Leach Batch: 395104

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	1311	
LB 500-395104/1-B	Method Blank	TCLP	Solid	1311	
LB 500-395104/1-C	Method Blank	TCLP	Solid	1311	

Metals (Continued)

Prep Batch: 395198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	3010A	395104
LB 500-395104/1-B	Method Blank	TCLP	Solid	3010A	395104
LCS 500-395198/2-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 395284

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	7470A	395104
LB 500-395104/1-C	Method Blank	TCLP	Solid	7470A	395104
MB 500-395284/12-A	Method Blank	Total/NA	Solid	7470A	
LCS 500-395284/13-A	Lab Control Sample	Total/NA	Solid	7470A	

Prep Batch: 395306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	7471B	
500-131811-4	GP-47 (2-4)	Total/NA	Solid	7471B	
500-131811-5	GP-47 (6-8)	Total/NA	Solid	7471B	
500-131811-6	GP-48 (2-4)	Total/NA	Solid	7471B	
MB 500-395306/12-A	Method Blank	Total/NA	Solid	7471B	
LCS 500-395306/13-A	Lab Control Sample	Total/NA	Solid	7471B	

Analysis Batch: 395381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	6010B	395198
LB 500-395104/1-B	Method Blank	TCLP	Solid	6010B	395198
LCS 500-395198/2-A	Lab Control Sample	Total/NA	Solid	6010B	395198

Analysis Batch: 395419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	7471B	395306
500-131811-4	GP-47 (2-4)	Total/NA	Solid	7471B	395306
500-131811-5	GP-47 (6-8)	Total/NA	Solid	7471B	395306
500-131811-6	GP-48 (2-4)	Total/NA	Solid	7471B	395306
MB 500-395306/12-A	Method Blank	Total/NA	Solid	7471B	395306
LCS 500-395306/13-A	Lab Control Sample	Total/NA	Solid	7471B	395306

Analysis Batch: 395422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	TCLP	Solid	7470A	395284
LB 500-395104/1-C	Method Blank	TCLP	Solid	7470A	395284
MB 500-395284/12-A	Method Blank	Total/NA	Solid	7470A	395284
LCS 500-395284/13-A	Lab Control Sample	Total/NA	Solid	7470A	395284

Prep Batch: 395579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	3050B	
500-131811-4	GP-47 (2-4)	Total/NA	Solid	3050B	
500-131811-5	GP-47 (6-8)	Total/NA	Solid	3050B	
500-131811-6	GP-48 (2-4)	Total/NA	Solid	3050B	
500-131811-11	GP-51 (2-4)	Total/NA	Solid	3050B	
500-131811-12	GP-51 (14-16)	Total/NA	Solid	3050B	
500-131811-13	GP-52 (2-4)	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 395579 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-14	GP-53 (2-4)	Total/NA	Solid	3050B	
500-131811-15	GP-54 (2-4)	Total/NA	Solid	3050B	
500-131811-16	GP-55 (2-4)	Total/NA	Solid	3050B	
500-131811-17	GP-55 (6-8)	Total/NA	Solid	3050B	
500-131811-18	GP-56 (0-2)	Total/NA	Solid	3050B	
500-131811-19	GP-56 (4-6)	Total/NA	Solid	3050B	
500-131811-20	GP-57 (0-2)	Total/NA	Solid	3050B	
500-131811-21	GP-57 (4-6)	Total/NA	Solid	3050B	
500-131811-22	GP-58 (2-4)	Total/NA	Solid	3050B	
500-131811-23	GP-58 (6-8)	Total/NA	Solid	3050B	
MB 500-395579/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-395579/2-A	Lab Control Sample	Total/NA	Solid	3050B	
500-131811-3 MS	GP-46 (2-4)	Total/NA	Solid	3050B	
500-131811-3 MSD	GP-46 (2-4)	Total/NA	Solid	3050B	
500-131811-3 DU	GP-46 (2-4)	Total/NA	Solid	3050B	

Analysis Batch: 395729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	6010B	395579
500-131811-4	GP-47 (2-4)	Total/NA	Solid	6010B	395579
500-131811-5	GP-47 (6-8)	Total/NA	Solid	6010B	395579
500-131811-6	GP-48 (2-4)	Total/NA	Solid	6010B	395579
500-131811-11	GP-51 (2-4)	Total/NA	Solid	6010B	395579
500-131811-12	GP-51 (14-16)	Total/NA	Solid	6010B	395579
500-131811-13	GP-52 (2-4)	Total/NA	Solid	6010B	395579
500-131811-14	GP-53 (2-4)	Total/NA	Solid	6010B	395579
500-131811-15	GP-54 (2-4)	Total/NA	Solid	6010B	395579
500-131811-16	GP-55 (2-4)	Total/NA	Solid	6010B	395579
500-131811-17	GP-55 (6-8)	Total/NA	Solid	6010B	395579
500-131811-18	GP-56 (0-2)	Total/NA	Solid	6010B	395579
500-131811-19	GP-56 (4-6)	Total/NA	Solid	6010B	395579
500-131811-20	GP-57 (0-2)	Total/NA	Solid	6010B	395579
500-131811-21	GP-57 (4-6)	Total/NA	Solid	6010B	395579
500-131811-22	GP-58 (2-4)	Total/NA	Solid	6010B	395579
500-131811-23	GP-58 (6-8)	Total/NA	Solid	6010B	395579
MB 500-395579/1-A	Method Blank	Total/NA	Solid	6010B	395579
LCS 500-395579/2-A	Lab Control Sample	Total/NA	Solid	6010B	395579
500-131811-3 MS	GP-46 (2-4)	Total/NA	Solid	6010B	395579
500-131811-3 MSD	GP-46 (2-4)	Total/NA	Solid	6010B	395579
500-131811-3 DU	GP-46 (2-4)	Total/NA	Solid	6010B	395579

General Chemistry

Analysis Batch: 395257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-3	GP-46 (2-4)	Total/NA	Solid	Moisture	
500-131811-4	GP-47 (2-4)	Total/NA	Solid	Moisture	
500-131811-5	GP-47 (6-8)	Total/NA	Solid	Moisture	
500-131811-6	GP-48 (2-4)	Total/NA	Solid	Moisture	
500-131811-11	GP-51 (2-4)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 395257 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-12	GP-51 (14-16)	Total/NA	Solid	Moisture	
500-131811-13	GP-52 (2-4)	Total/NA	Solid	Moisture	
500-131811-14	GP-53 (2-4)	Total/NA	Solid	Moisture	
500-131811-15	GP-54 (2-4)	Total/NA	Solid	Moisture	
500-131811-16	GP-55 (2-4)	Total/NA	Solid	Moisture	
500-131811-17	GP-55 (6-8)	Total/NA	Solid	Moisture	
500-131811-18	GP-56 (0-2)	Total/NA	Solid	Moisture	
500-131811-19	GP-56 (4-6)	Total/NA	Solid	Moisture	
500-131811-20	GP-57 (0-2)	Total/NA	Solid	Moisture	
500-131811-21	GP-57 (4-6)	Total/NA	Solid	Moisture	
500-131811-22	GP-58 (2-4)	Total/NA	Solid	Moisture	
500-131811-23	GP-58 (6-8)	Total/NA	Solid	Moisture	
500-131811-24	Trip Blank	Total/NA	Solid	Moisture	
500-131811-13 DU	GP-52 (2-4)	Total/NA	Solid	Moisture	

Prep Batch: 395410

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	9030B	
MB 500-395410/1-A	Method Blank	Total/NA	Solid	9030B	
LCS 500-395410/2-A	Lab Control Sample	Total/NA	Solid	9030B	

Analysis Batch: 395424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	9034	395410
MB 500-395410/1-A	Method Blank	Total/NA	Solid	9034	395410
LCS 500-395410/2-A	Lab Control Sample	Total/NA	Solid	9034	395410

Analysis Batch: 395503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	1010	

Prep Batch: 395608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	9010B	
MB 500-395608/1-A	Method Blank	Total/NA	Solid	9010B	
LCS 500-395608/2-A	Lab Control Sample	Total/NA	Solid	9010B	

Analysis Batch: 395896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	SM 2710F	
500-131811-4 DU	GP-47 (2-4)	Total/NA	Solid	SM 2710F	

Analysis Batch: 395897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	9095A	

Analysis Batch: 395966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	9014	395608
MB 500-395608/1-A	Method Blank	Total/NA	Solid	9014	395608
LCS 500-395608/2-A	Lab Control Sample	Total/NA	Solid	9014	395608

QC Association Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Analysis Batch: 396313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131811-4	GP-47 (2-4)	Total/NA	Solid	9045C	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-131811-3	GP-46 (2-4)	96	92	93	86
500-131811-4	GP-47 (2-4)	93	92	93	89
500-131811-5	GP-47 (6-8)	94	96	89	89
500-131811-6	GP-48 (2-4)	97	90	92	86
500-131811-16	GP-55 (2-4)	95	85	93	89
500-131811-17	GP-55 (6-8)	94	94	91	89
500-131811-18	GP-56 (0-2)	94	92	90	92
500-131811-19	GP-56 (4-6)	102	92	98	103
500-131811-19 - DL	GP-56 (4-6)	102	88	95	93
500-131811-20	GP-57 (0-2)	100	98	93	90
500-131811-21	GP-57 (4-6)	98	96	95	89
500-131811-22	GP-58 (2-4)	96	95	90	89
500-131811-23	GP-58 (6-8)	92	93	91	89
500-131811-23 MS	GP-58 (6-8)	96	85	100	91
500-131811-23 MSD	GP-58 (6-8)	97	90	100	93
500-131811-24	Trip Blank	94	92	91	89
LCS 500-395678/4	Lab Control Sample	98	85	98	90
LCS 500-395703/5	Lab Control Sample	103	88	94	102
MB 500-395678/6	Method Blank	96	98	97	86
MB 500-395703/7	Method Blank	105	103	99	110

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

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

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)			
		12DCE	BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(75-126)	(72-124)	(75-120)	(75-120)
500-131811-4	GP-47 (2-4)	107	111	98	100
LB 500-395624/1-A	Method Blank	107	102	100	102

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane
TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)
LCS 500-395370/2-A	Lab Control Sample	92	76	44	70	32	87
MB 500-395370/1-A	Method Blank	74	79	44	68	25	105

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: TCLP**

		Percent Surrogate Recovery (Acceptance Limits)					
		TBP	FBP	2FP	NBZ	PHL	TPH
Lab Sample ID	Client Sample ID	(40-145)	(34-110)	(27-110)	(36-120)	(20-100)	(40-145)
500-131811-4	GP-47 (2-4)	94	84	50	76	22	122
500-131811-4 MS	GP-47 (2-4)	99	82	41	75	31	88
LB 500-395104/1-D	Method Blank	85	77	44	68	18 X	103

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)
FBP = 2-Fluorobiphenyl
2FP = 2-Fluorophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPH = Terphenyl-d14 (Surr)

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TFT	TFT
Lab Sample ID	Client Sample ID	(80-120)	(80-120)
500-131811-11	GP-51 (2-4)	106	106
500-131811-12	GP-51 (14-16)	107	107
500-131811-13	GP-52 (2-4)	105	105
500-131811-14	GP-53 (2-4)	108	108
500-131811-15	GP-54 (2-4)	109	109
LCS 490-449092/2-A	Lab Control Sample	105	105
LCSD 490-449092/3-A	Lab Control Sample Dup	112	112
MB 490-449092/1-A	Method Blank	104	104

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TCX1	TCX1	DCB1	DCB1
Lab Sample ID	Client Sample ID	(49-129)	(49-129)	(37-121)	(37-121)
500-131811-4	GP-47 (2-4)	90	90	87	87
LCS 500-395540/3-A	Lab Control Sample	96	96	105	105
MB 500-395540/1-A	Method Blank	103	103	106	106

Surrogate Legend

TCX = Tetrachloro-m-xylene

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

DCB = DCB Decachlorobiphenyl

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	**Client Sample ID**	**C9 (44-148)**
500-131811-4	GP-47 (2-4)	84
500-131811-14	GP-53 (2-4)	86
500-131811-19	GP-56 (4-6)	142
LCS 500-395241/2-A	Lab Control Sample	88
LCSD 500-395241/3-A	Lab Control Sample Dup	88
MB 500-395241/1-A	Method Blank	86

Surrogate Legend

C9 = n-Nonane

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

Lab Sample ID: 500-131811-23 MS
Matrix: Solid
Analysis Batch: 395678

Client Sample ID: GP-58 (6-8)
Prep Type: Total/NA
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<32		3470	3320		ug/Kg	☼	96	70 - 125
1,1,1-Trichloroethane	<26		3470	3700		ug/Kg	☼	107	70 - 125
1,1,2,2-Tetrachloroethane	<28		3470	3220		ug/Kg	☼	93	67 - 127
1,1,2-Trichloroethane	<24		3470	3040		ug/Kg	☼	88	70 - 122
1,1-Dichloroethane	<28		3470	3730		ug/Kg	☼	107	70 - 125
1,1-Dichloroethene	<27		3470	3860		ug/Kg	☼	111	67 - 122
1,1-Dichloropropene	<21		3470	3570		ug/Kg	☼	103	70 - 121
1,2,3-Trichlorobenzene	<32		3470	2920		ug/Kg	☼	84	55 - 140
1,2,3-Trichloropropane	<29		3470	2850		ug/Kg	☼	82	50 - 133
1,2,4-Trichlorobenzene	<24		3470	2850		ug/Kg	☼	82	66 - 127
1,2,4-Trimethylbenzene	<25		3470	3200		ug/Kg	☼	92	70 - 123
1,2-Dibromo-3-Chloropropane	<140		3470	2580		ug/Kg	☼	74	56 - 123
1,2-Dibromoethane	<27		3470	3190		ug/Kg	☼	92	70 - 125
1,2-Dichlorobenzene	<23		3470	3120		ug/Kg	☼	90	70 - 125
1,2-Dichloroethane	<27		3470	3480		ug/Kg	☼	100	68 - 127
1,2-Dichloropropane	<30		3470	3170		ug/Kg	☼	91	67 - 130
1,3,5-Trimethylbenzene	<26		3470	3160		ug/Kg	☼	91	70 - 123
1,3-Dichlorobenzene	<28		3470	3090		ug/Kg	☼	89	70 - 125
1,3-Dichloropropane	<25		3470	3180		ug/Kg	☼	92	62 - 136
1,4-Dichlorobenzene	<25		3470	3130		ug/Kg	☼	90	70 - 120
2,2-Dichloropropane	<31		3470	3920		ug/Kg	☼	113	58 - 129
2-Chlorotoluene	<22		3470	3350		ug/Kg	☼	96	70 - 125
4-Chlorotoluene	<24		3470	3010		ug/Kg	☼	87	68 - 124
Benzene	<10		3470	3520		ug/Kg	☼	101	70 - 120
Bromobenzene	<25		3470	2970		ug/Kg	☼	86	70 - 122
Bromochloromethane	<30		3470	3610		ug/Kg	☼	104	65 - 122
Bromodichloromethane	<26		3470	3220		ug/Kg	☼	93	69 - 120
Bromoform	<34		3470	2870		ug/Kg	☼	83	56 - 132
Bromomethane	<55	*	3470	4030		ug/Kg	☼	116	40 - 130
Carbon tetrachloride	<27		3470	3700		ug/Kg	☼	107	65 - 122
Chlorobenzene	<27		3470	3270		ug/Kg	☼	94	70 - 120
Chloroethane	<35		3470	3660		ug/Kg	☼	105	45 - 127
Chloroform	<26		3470	3670		ug/Kg	☼	106	70 - 120
Chloromethane	<22		3470	4110		ug/Kg	☼	118	54 - 147
cis-1,2-Dichloroethene	<28		3470	3760		ug/Kg	☼	108	70 - 125
cis-1,3-Dichloropropene	<29		3470	2840		ug/Kg	☼	82	64 - 127
Dibromochloromethane	<34		3470	2840		ug/Kg	☼	82	68 - 125
Dibromomethane	<19		3470	3370		ug/Kg	☼	97	70 - 120
Dichlorodifluoromethane	<47		3470	3560		ug/Kg	☼	103	40 - 150
Ethylbenzene	<13		3470	3360		ug/Kg	☼	97	70 - 120
Hexachlorobutadiene	<31		3470	3010		ug/Kg	☼	87	51 - 150
Isopropylbenzene	<27		3470	3060		ug/Kg	☼	88	70 - 126
Methyl tert-butyl ether	<27		3470	3710		ug/Kg	☼	107	70 - 120
Methylene Chloride	<110		3470	3950		ug/Kg	☼	114	69 - 125
Naphthalene	<23		3470	2880		ug/Kg	☼	83	59 - 130
n-Butylbenzene	<27		3470	3200		ug/Kg	☼	92	68 - 125
N-Propylbenzene	<29		3470	2990		ug/Kg	☼	86	69 - 127
p-Isopropyltoluene	<25		3470	3210		ug/Kg	☼	92	70 - 125

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

Lab Sample ID: 500-131811-23 MS
Matrix: Solid
Analysis Batch: 395678

Client Sample ID: GP-58 (6-8)
Prep Type: Total/NA
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
sec-Butylbenzene	<28		3470	3210		ug/Kg	☼	93	70 - 123
Styrene	<27		3470	3330		ug/Kg	☼	96	70 - 120
tert-Butylbenzene	<28		3470	3110		ug/Kg	☼	90	70 - 121
Tetrachloroethene	<26		3470	3140		ug/Kg	☼	90	70 - 128
Toluene	<10		3470	3230		ug/Kg	☼	93	70 - 125
trans-1,2-Dichloroethene	<24		3470	3880		ug/Kg	☼	112	70 - 125
trans-1,3-Dichloropropene	<25		3470	2780		ug/Kg	☼	80	62 - 128
Trichloroethene	<11		3470	3280		ug/Kg	☼	94	70 - 125
Trichlorofluoromethane	<30		3470	3430		ug/Kg	☼	99	70 - 126
Vinyl chloride	<18		3470	3780		ug/Kg	☼	109	64 - 126
Xylenes, Total	<15		6940	6690		ug/Kg	☼	96	70 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*91*		*75 - 120*

Lab Sample ID: 500-131811-23 MSD
Matrix: Solid
Analysis Batch: 395678

Client Sample ID: GP-58 (6-8)
Prep Type: Total/NA
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<32		3470	3270		ug/Kg	☼	94	70 - 125	1	30
1,1,1-Trichloroethane	<26		3470	3610		ug/Kg	☼	104	70 - 125	2	30
1,1,2,2-Tetrachloroethane	<28		3470	3240		ug/Kg	☼	93	67 - 127	1	30
1,1,2-Trichloroethane	<24		3470	3060		ug/Kg	☼	88	70 - 122	1	30
1,1-Dichloroethane	<28		3470	3630		ug/Kg	☼	104	70 - 125	3	30
1,1-Dichloroethene	<27		3470	3660		ug/Kg	☼	105	67 - 122	5	30
1,1-Dichloropropene	<21		3470	3570		ug/Kg	☼	103	70 - 121	0	30
1,2,3-Trichlorobenzene	<32		3470	2850		ug/Kg	☼	82	55 - 140	3	30
1,2,3-Trichloropropane	<29		3470	2970		ug/Kg	☼	86	50 - 133	4	30
1,2,4-Trichlorobenzene	<24		3470	2740		ug/Kg	☼	79	66 - 127	4	30
1,2,4-Trimethylbenzene	<25		3470	3220		ug/Kg	☼	93	70 - 123	1	30
1,2-Dibromo-3-Chloropropane	<140		3470	2640		ug/Kg	☼	76	56 - 123	2	30
1,2-Dibromoethane	<27		3470	3050		ug/Kg	☼	88	70 - 125	5	30
1,2-Dichlorobenzene	<23		3470	3120		ug/Kg	☼	90	70 - 125	0	30
1,2-Dichloroethane	<27		3470	3420		ug/Kg	☼	98	68 - 127	2	30
1,2-Dichloropropane	<30		3470	3200		ug/Kg	☼	92	67 - 130	1	30
1,3,5-Trimethylbenzene	<26		3470	3200		ug/Kg	☼	92	70 - 123	1	30
1,3-Dichlorobenzene	<28		3470	3080		ug/Kg	☼	89	70 - 125	0	30
1,3-Dichloropropane	<25		3470	3190		ug/Kg	☼	92	62 - 136	0	30
1,4-Dichlorobenzene	<25		3470	3140		ug/Kg	☼	90	70 - 120	0	30
2,2-Dichloropropane	<31		3470	3680		ug/Kg	☼	106	58 - 129	6	30
2-Chlorotoluene	<22		3470	3420		ug/Kg	☼	99	70 - 125	2	30
4-Chlorotoluene	<24		3470	3080		ug/Kg	☼	89	68 - 124	2	30
Benzene	<10		3470	3510		ug/Kg	☼	101	70 - 120	0	30
Bromobenzene	<25		3470	3130		ug/Kg	☼	90	70 - 122	5	30

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

Lab Sample ID: 500-131811-23 MSD
Matrix: Solid
Analysis Batch: 395678

Client Sample ID: GP-58 (6-8)
Prep Type: Total/NA
Prep Batch: 395116

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	<30		3470	3510		ug/Kg	☼	101	65 - 122	3	30
Bromodichloromethane	<26		3470	3340		ug/Kg	☼	96	69 - 120	4	30
Bromoform	<34		3470	2720		ug/Kg	☼	78	56 - 132	6	30
Bromomethane	<55	*	3470	3830		ug/Kg	☼	110	40 - 130	5	30
Carbon tetrachloride	<27		3470	3600		ug/Kg	☼	104	65 - 122	3	30
Chlorobenzene	<27		3470	3190		ug/Kg	☼	92	70 - 120	2	30
Chloroethane	<35		3470	3430		ug/Kg	☼	99	45 - 127	7	30
Chloroform	<26		3470	3630		ug/Kg	☼	104	70 - 120	1	30
Chloromethane	<22		3470	3950		ug/Kg	☼	114	54 - 147	4	30
cis-1,2-Dichloroethene	<28		3470	3640		ug/Kg	☼	105	70 - 125	3	30
cis-1,3-Dichloropropene	<29		3470	2900		ug/Kg	☼	83	64 - 127	2	30
Dibromochloromethane	<34		3470	2890		ug/Kg	☼	83	68 - 125	2	30
Dibromomethane	<19		3470	3300		ug/Kg	☼	95	70 - 120	2	30
Dichlorodifluoromethane	<47		3470	3560		ug/Kg	☼	102	40 - 150	0	30
Ethylbenzene	<13		3470	3220		ug/Kg	☼	93	70 - 120	4	30
Hexachlorobutadiene	<31		3470	2930		ug/Kg	☼	84	51 - 150	3	30
Isopropylbenzene	<27		3470	3140		ug/Kg	☼	90	70 - 126	3	30
Methyl tert-butyl ether	<27		3470	3570		ug/Kg	☼	103	70 - 120	4	30
Methylene Chloride	<110		3470	3730		ug/Kg	☼	107	69 - 125	6	30
Naphthalene	<23		3470	2850		ug/Kg	☼	82	59 - 130	1	30
n-Butylbenzene	<27		3470	3120		ug/Kg	☼	90	68 - 125	2	30
N-Propylbenzene	<29		3470	3050		ug/Kg	☼	88	69 - 127	2	30
p-Isopropyltoluene	<25		3470	3220		ug/Kg	☼	93	70 - 125	0	30
sec-Butylbenzene	<28		3470	3210		ug/Kg	☼	92	70 - 123	0	30
Styrene	<27		3470	3170		ug/Kg	☼	91	70 - 120	5	30
tert-Butylbenzene	<28		3470	3210		ug/Kg	☼	92	70 - 121	3	30
Tetrachloroethene	<26		3470	3160		ug/Kg	☼	91	70 - 128	1	30
Toluene	<10		3470	3140		ug/Kg	☼	91	70 - 125	3	30
trans-1,2-Dichloroethene	<24		3470	3620		ug/Kg	☼	104	70 - 125	7	30
trans-1,3-Dichloropropene	<25		3470	2880		ug/Kg	☼	83	62 - 128	3	30
Trichloroethene	<11		3470	3310		ug/Kg	☼	95	70 - 125	1	30
Trichlorofluoromethane	<30		3470	3270		ug/Kg	☼	94	70 - 126	5	30
Vinyl chloride	<18		3470	3520		ug/Kg	☼	101	64 - 126	7	30
Xylenes, Total	<15		6940	6540		ug/Kg	☼	94	70 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*97*		*75 - 126*
4-Bromofluorobenzene (Surr)	*90*		*72 - 124*
Dibromofluoromethane	*100*		*75 - 120*
Toluene-d8 (Surr)	*93*		*75 - 120*

Lab Sample ID: MB 500-395678/6
Matrix: Solid
Analysis Batch: 395678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/Kg			08/02/17 21:35	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/Kg			08/02/17 21:35	1

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

Lab Sample ID: MB 500-395678/6
Matrix: Solid
Analysis Batch: 395678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/Kg			08/02/17 21:35	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/Kg			08/02/17 21:35	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/Kg			08/02/17 21:35	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/Kg			08/02/17 21:35	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/Kg			08/02/17 21:35	1
1,2,3-Trichloropropane	<0.41		1.0	0.41	ug/Kg			08/02/17 21:35	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/Kg			08/02/17 21:35	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/Kg			08/02/17 21:35	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/Kg			08/02/17 21:35	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/Kg			08/02/17 21:35	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/Kg			08/02/17 21:35	1
1,3,5-Trimethylbenzene	<0.38		1.0	0.38	ug/Kg			08/02/17 21:35	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/Kg			08/02/17 21:35	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/Kg			08/02/17 21:35	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/Kg			08/02/17 21:35	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/Kg			08/02/17 21:35	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/Kg			08/02/17 21:35	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/Kg			08/02/17 21:35	1
Benzene	<0.15		0.25	0.15	ug/Kg			08/02/17 21:35	1
Bromobenzene	<0.36		1.0	0.36	ug/Kg			08/02/17 21:35	1
Bromochloromethane	<0.43		1.0	0.43	ug/Kg			08/02/17 21:35	1
Bromodichloromethane	<0.37		1.0	0.37	ug/Kg			08/02/17 21:35	1
Bromoform	<0.48		1.0	0.48	ug/Kg			08/02/17 21:35	1
Bromomethane	<0.80		2.0	0.80	ug/Kg			08/02/17 21:35	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/Kg			08/02/17 21:35	1
Chlorobenzene	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
Chloroethane	<0.50		1.0	0.50	ug/Kg			08/02/17 21:35	1
Chloroform	<0.37		2.0	0.37	ug/Kg			08/02/17 21:35	1
Chloromethane	<0.32		1.0	0.32	ug/Kg			08/02/17 21:35	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/Kg			08/02/17 21:35	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/Kg			08/02/17 21:35	1
Dibromochloromethane	<0.49		1.0	0.49	ug/Kg			08/02/17 21:35	1
Dibromomethane	<0.27		1.0	0.27	ug/Kg			08/02/17 21:35	1
Dichlorodifluoromethane	<0.67		2.0	0.67	ug/Kg			08/02/17 21:35	1
Ethylbenzene	<0.18		0.25	0.18	ug/Kg			08/02/17 21:35	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/Kg			08/02/17 21:35	1
Isopropyl ether	<0.28		1.0	0.28	ug/Kg			08/02/17 21:35	1
Isopropylbenzene	<0.38		1.0	0.38	ug/Kg			08/02/17 21:35	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
Methylene Chloride	<1.6		5.0	1.6	ug/Kg			08/02/17 21:35	1
Naphthalene	<0.33		1.0	0.33	ug/Kg			08/02/17 21:35	1
n-Butylbenzene	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
N-Propylbenzene	<0.41		1.0	0.41	ug/Kg			08/02/17 21:35	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/Kg			08/02/17 21:35	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/02/17 21:35	1

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

Lab Sample ID: MB 500-395678/6
Matrix: Solid
Analysis Batch: 395678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<0.39		1.0	0.39	ug/Kg			08/02/17 21:35	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/Kg			08/02/17 21:35	1
Tetrachloroethene	<0.37		1.0	0.37	ug/Kg			08/02/17 21:35	1
Toluene	<0.15		0.25	0.15	ug/Kg			08/02/17 21:35	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/Kg			08/02/17 21:35	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/Kg			08/02/17 21:35	1
Trichloroethene	<0.16		0.50	0.16	ug/Kg			08/02/17 21:35	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/Kg			08/02/17 21:35	1
Vinyl chloride	<0.26		0.50	0.26	ug/Kg			08/02/17 21:35	1
Xylenes, Total	<0.22		0.50	0.22	ug/Kg			08/02/17 21:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*96*		*75 - 126*		*08/02/17 21:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*72 - 124*		*08/02/17 21:35*	*1*
Dibromofluoromethane	*97*		*75 - 120*		*08/02/17 21:35*	*1*
Toluene-d8 (Surr)	*86*		*75 - 120*		*08/02/17 21:35*	*1*

Lab Sample ID: LCS 500-395678/4
Matrix: Solid
Analysis Batch: 395678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/Kg		98	70 - 125
1,1,1-Trichloroethane	50.0	53.1		ug/Kg		106	70 - 125
1,1,2,2-Tetrachloroethane	50.0	46.4		ug/Kg		93	67 - 127
1,1,2-Trichloroethane	50.0	42.3		ug/Kg		85	70 - 122
1,1-Dichloroethane	50.0	51.6		ug/Kg		103	70 - 125
1,1-Dichloroethene	50.0	52.8		ug/Kg		106	67 - 122
1,1-Dichloropropene	50.0	51.9		ug/Kg		104	70 - 121
1,2,3-Trichlorobenzene	50.0	45.7		ug/Kg		91	55 - 140
1,2,3-Trichloropropane	50.0	42.1		ug/Kg		84	50 - 133
1,2,4-Trichlorobenzene	50.0	44.0		ug/Kg		88	66 - 127
1,2,4-Trimethylbenzene	50.0	46.2		ug/Kg		92	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	39.3		ug/Kg		79	56 - 123
1,2-Dibromoethane	50.0	43.5		ug/Kg		87	70 - 125
1,2-Dichlorobenzene	50.0	46.0		ug/Kg		92	70 - 125
1,2-Dichloroethane	50.0	50.1		ug/Kg		100	68 - 127
1,2-Dichloropropane	50.0	45.3		ug/Kg		91	67 - 130
1,3,5-Trimethylbenzene	50.0	45.7		ug/Kg		91	70 - 123
1,3-Dichlorobenzene	50.0	44.8		ug/Kg		90	70 - 125
1,3-Dichloropropane	50.0	42.6		ug/Kg		85	62 - 136
1,4-Dichlorobenzene	50.0	46.3		ug/Kg		93	70 - 120
2,2-Dichloropropane	50.0	56.3		ug/Kg		113	58 - 129
2-Chlorotoluene	50.0	48.4		ug/Kg		97	70 - 125
4-Chlorotoluene	50.0	43.7		ug/Kg		87	68 - 124
Benzene	50.0	50.2		ug/Kg		100	70 - 120
Bromobenzene	50.0	42.9		ug/Kg		86	70 - 122
Bromochloromethane	50.0	51.8		ug/Kg		104	65 - 122

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

Lab Sample ID: LCS 500-395678/4
Matrix: Solid
Analysis Batch: 395678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	47.4		ug/Kg		95	69 - 120
Bromoform	50.0	44.5		ug/Kg		89	56 - 132
Bromomethane	50.0	72.3	*	ug/Kg		145	40 - 130
Carbon tetrachloride	50.0	53.3		ug/Kg		107	65 - 122
Chlorobenzene	50.0	45.9		ug/Kg		92	70 - 120
Chloroethane	50.0	58.9		ug/Kg		118	45 - 127
Chloroform	50.0	50.0		ug/Kg		100	70 - 120
Chloromethane	50.0	57.9		ug/Kg		116	54 - 147
cis-1,2-Dichloroethene	50.0	51.9		ug/Kg		104	70 - 125
cis-1,3-Dichloropropene	50.0	41.0		ug/Kg		82	64 - 127
Dibromochloromethane	50.0	42.4		ug/Kg		85	68 - 125
Dibromomethane	50.0	48.7		ug/Kg		97	70 - 120
Dichlorodifluoromethane	50.0	51.1		ug/Kg		102	40 - 150
Ethylbenzene	50.0	46.5		ug/Kg		93	70 - 120
Hexachlorobutadiene	50.0	46.5		ug/Kg		93	51 - 150
Isopropylbenzene	50.0	43.5		ug/Kg		87	70 - 126
Methyl tert-butyl ether	50.0	51.4		ug/Kg		103	70 - 120
Methylene Chloride	50.0	55.0		ug/Kg		110	69 - 125
Naphthalene	50.0	43.3		ug/Kg		87	59 - 130
n-Butylbenzene	50.0	48.9		ug/Kg		98	68 - 125
N-Propylbenzene	50.0	43.7		ug/Kg		87	69 - 127
p-Isopropyltoluene	50.0	47.5		ug/Kg		95	70 - 125
sec-Butylbenzene	50.0	46.1		ug/Kg		92	70 - 123
Styrene	50.0	47.3		ug/Kg		95	70 - 120
tert-Butylbenzene	50.0	44.8		ug/Kg		90	70 - 121
Tetrachloroethene	50.0	45.4		ug/Kg		91	70 - 128
Toluene	50.0	44.3		ug/Kg		89	70 - 125
trans-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	70 - 125
trans-1,3-Dichloropropene	50.0	40.6		ug/Kg		81	62 - 128
Trichloroethene	50.0	48.9		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	47.2		ug/Kg		94	70 - 126
Vinyl chloride	50.0	52.3		ug/Kg		105	64 - 126
Xylenes, Total	100	95.1		ug/Kg		95	70 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*98*		*75 - 126*
4-Bromofluorobenzene (Surr)	*85*		*72 - 124*
Dibromofluoromethane	*98*		*75 - 120*
Toluene-d8 (Surr)	*90*		*75 - 120*

Lab Sample ID: MB 500-395703/7
Matrix: Solid
Analysis Batch: 395703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Methyl Ethyl Ketone	<0.0025		0.0050	0.0025	mg/L			08/03/17 11:39	1
1,2-Dichloroethane	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1

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

Lab Sample ID: MB 500-395703/7
Matrix: Solid
Analysis Batch: 395703

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Carbon tetrachloride	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Chlorobenzene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Chloroform	<0.0010		0.0020	0.0010	mg/L			08/03/17 11:39	1
Tetrachloroethene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Trichloroethene	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1
Vinyl chloride	<0.00050		0.0010	0.00050	mg/L			08/03/17 11:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*75 - 126*		*08/03/17 11:39*	*1*
4-Bromofluorobenzene (Surr)	*103*		*72 - 124*		*08/03/17 11:39*	*1*
Dibromofluoromethane	*99*		*75 - 120*		*08/03/17 11:39*	*1*
Toluene-d8 (Surr)	*110*		*75 - 120*		*08/03/17 11:39*	*1*

Lab Sample ID: LCS 500-395703/5
Matrix: Solid
Analysis Batch: 395703

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	0.0500	0.0502		mg/L		100	67 - 122
Methyl Ethyl Ketone	0.0500	0.0485		mg/L		97	53 - 141
1,2-Dichloroethane	0.0500	0.0514		mg/L		103	68 - 127
Benzene	0.0500	0.0502		mg/L		100	70 - 120
Carbon tetrachloride	0.0500	0.0486		mg/L		97	65 - 122
Chlorobenzene	0.0500	0.0521		mg/L		104	70 - 120
Chloroform	0.0500	0.0484		mg/L		97	70 - 120
Tetrachloroethene	0.0500	0.0494		mg/L		99	70 - 128
Trichloroethene	0.0500	0.0466		mg/L		93	70 - 125
Vinyl chloride	0.0500	0.0431		mg/L		86	64 - 126

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*103*		*75 - 126*
4-Bromofluorobenzene (Surr)	*88*		*72 - 124*
Dibromofluoromethane	*94*		*75 - 120*
Toluene-d8 (Surr)	*102*		*75 - 120*

Lab Sample ID: LB 500-395624/1-A
Matrix: Solid
Analysis Batch: 395703

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Methyl Ethyl Ketone	<0.050		0.10	0.050	mg/L			08/03/17 12:08	20
1,2-Dichloroethane	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Benzene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Carbon tetrachloride	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Chlorobenzene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Chloroform	<0.020		0.040	0.020	mg/L			08/03/17 12:08	20

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

Lab Sample ID: LB 500-395624/1-A
Matrix: Solid
Analysis Batch: 395703

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Trichloroethene	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20
Vinyl chloride	<0.010		0.020	0.010	mg/L			08/03/17 12:08	20

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*75 - 126*		*08/03/17 12:08*	*20*
4-Bromofluorobenzene (Surr)	*102*		*72 - 124*		*08/03/17 12:08*	*20*
Dibromofluoromethane	*100*		*75 - 120*		*08/03/17 12:08*	*20*
Toluene-d8 (Surr)	*102*		*75 - 120*		*08/03/17 12:08*	*20*

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-395370/1-A
Matrix: Solid
Analysis Batch: 395460

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395370

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.0020		0.0020	0.0020	mg/L		08/01/17 08:17	08/01/17 18:43	1
2,4,5-Trichlorophenol	<0.010		0.010	0.010	mg/L		08/01/17 08:17	08/01/17 18:43	1
2,4,6-Trichlorophenol	<0.0050		0.0050	0.0050	mg/L		08/01/17 08:17	08/01/17 18:43	1
2,4-Dinitrotoluene	<0.0010		0.0010	0.0010	mg/L		08/01/17 08:17	08/01/17 18:43	1
2-Methylphenol	<0.0020		0.0020	0.0020	mg/L		08/01/17 08:17	08/01/17 18:43	1
3 & 4 Methylphenol	<0.0020		0.0020	0.0020	mg/L		08/01/17 08:17	08/01/17 18:43	1
Hexachlorobenzene	<0.00050		0.00050	0.00050	mg/L		08/01/17 08:17	08/01/17 18:43	1
Hexachlorobutadiene	<0.0050		0.0050	0.0050	mg/L		08/01/17 08:17	08/01/17 18:43	1
Hexachloroethane	<0.0050		0.0050	0.0050	mg/L		08/01/17 08:17	08/01/17 18:43	1
Nitrobenzene	<0.0010		0.0010	0.0010	mg/L		08/01/17 08:17	08/01/17 18:43	1
Pentachlorophenol	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/01/17 18:43	1
Pyridine	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/01/17 18:43	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*74*		*40 - 145*	*08/01/17 08:17*	*08/01/17 18:43*	*1*
2-Fluorobiphenyl	*79*		*34 - 110*	*08/01/17 08:17*	*08/01/17 18:43*	*1*
2-Fluorophenol (Surr)	*44*		*27 - 110*	*08/01/17 08:17*	*08/01/17 18:43*	*1*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*08/01/17 08:17*	*08/01/17 18:43*	*1*
Phenol-d5 (Surr)	*25*		*20 - 100*	*08/01/17 08:17*	*08/01/17 18:43*	*1*
Terphenyl-d14 (Surr)	*105*		*40 - 145*	*08/01/17 08:17*	*08/01/17 18:43*	*1*

Lab Sample ID: LCS 500-395370/2-A
Matrix: Solid
Analysis Batch: 395460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.0400	0.0229		mg/L		57	23 - 110
2,4,5-Trichlorophenol	0.0400	0.0331		mg/L		83	63 - 120
2,4,6-Trichlorophenol	0.0400	0.0328		mg/L		82	62 - 110
2,4-Dinitrotoluene	0.0400	0.0304		mg/L		76	63 - 122

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-395370/2-A
Matrix: Solid
Analysis Batch: 395460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395370

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylphenol	0.0400	0.0254		mg/L		63	53 - 110
3 & 4 Methylphenol	0.0400	0.0244		mg/L		61	53 - 110
Hexachlorobenzene	0.0400	0.0337		mg/L		84	61 - 120
Hexachlorobutadiene	0.0400	0.0241		mg/L		60	20 - 100
Hexachloroethane	0.0400	0.0237		mg/L		59	20 - 100
Nitrobenzene	0.0400	0.0295		mg/L		74	53 - 110
Pentachlorophenol	0.0800	0.0539		mg/L		67	23 - 129
Pyridine	0.0800	0.0312		mg/L		39	15 - 110

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*92*		*40 - 145*
2-Fluorobiphenyl	*76*		*34 - 110*
2-Fluorophenol (Surr)	*44*		*27 - 110*
Nitrobenzene-d5 (Surr)	*70*		*36 - 120*
Phenol-d5 (Surr)	*32*		*20 - 100*
Terphenyl-d14 (Surr)	*87*		*40 - 145*

Lab Sample ID: LB 500-395104/1-D
Matrix: Solid
Analysis Batch: 395460

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 395370

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/01/17 20:10	1
2,4,5-Trichlorophenol	<0.10		0.10	0.10	mg/L		08/01/17 08:17	08/01/17 20:10	1
2,4,6-Trichlorophenol	<0.050		0.050	0.050	mg/L		08/01/17 08:17	08/01/17 20:10	1
2,4-Dinitrotoluene	<0.010		0.010	0.010	mg/L		08/01/17 08:17	08/01/17 20:10	1
2-Methylphenol	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/01/17 20:10	1
3 & 4 Methylphenol	<0.020		0.020	0.020	mg/L		08/01/17 08:17	08/01/17 20:10	1
Hexachlorobenzene	<0.0050		0.0050	0.0050	mg/L		08/01/17 08:17	08/01/17 20:10	1
Hexachlorobutadiene	<0.050		0.050	0.050	mg/L		08/01/17 08:17	08/01/17 20:10	1
Hexachloroethane	<0.050		0.050	0.050	mg/L		08/01/17 08:17	08/01/17 20:10	1
Nitrobenzene	<0.010		0.010	0.010	mg/L		08/01/17 08:17	08/01/17 20:10	1
Pentachlorophenol	<0.20		0.20	0.20	mg/L		08/01/17 08:17	08/01/17 20:10	1
Pyridine	<0.20		0.20	0.20	mg/L		08/01/17 08:17	08/01/17 20:10	1

Surrogate	*LB %Recovery*	*LB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4,6-Tribromophenol (Surr)	*85*		*40 - 145*	*08/01/17 08:17*	*08/01/17 20:10*	*1*
2-Fluorobiphenyl	*77*		*34 - 110*	*08/01/17 08:17*	*08/01/17 20:10*	*1*
2-Fluorophenol (Surr)	*44*		*27 - 110*	*08/01/17 08:17*	*08/01/17 20:10*	*1*
Nitrobenzene-d5 (Surr)	*68*		*36 - 120*	*08/01/17 08:17*	*08/01/17 20:10*	*1*
Phenol-d5 (Surr)	*18*	*X*	*20 - 100*	*08/01/17 08:17*	*08/01/17 20:10*	*1*
Terphenyl-d14 (Surr)	*103*		*40 - 145*	*08/01/17 08:17*	*08/01/17 20:10*	*1*

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 500-131811-4 MS
Matrix: Solid
Analysis Batch: 395460

Client Sample ID: GP-47 (2-4)
Prep Type: TCLP
Prep Batch: 395370

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	<0.020		0.400	0.257		mg/L		64	23 - 110
2,4,5-Trichlorophenol	<0.10		0.400	0.375		mg/L		94	63 - 120
2,4,6-Trichlorophenol	<0.050		0.400	0.351		mg/L		88	62 - 110
2,4-Dinitrotoluene	<0.010		0.400	0.327		mg/L		82	63 - 122
2-Methylphenol	<0.020		0.400	0.271		mg/L		68	53 - 110
3 & 4 Methylphenol	<0.020		0.400	0.255		mg/L		64	53 - 110
Hexachlorobenzene	<0.0050		0.400	0.375		mg/L		94	61 - 120
Hexachlorobutadiene	<0.050		0.400	0.249		mg/L		62	20 - 100
Hexachloroethane	<0.050		0.400	0.245		mg/L		61	20 - 100
Nitrobenzene	<0.010		0.400	0.322		mg/L		81	53 - 110
Pentachlorophenol	<0.20		0.800	0.621		mg/L		78	23 - 129
Pyridine	<0.20		0.800	0.429		mg/L		54	15 - 110

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
2,4,6-Tribromophenol (Surr)	*99*		*40 - 145*
2-Fluorobiphenyl	*82*		*34 - 110*
2-Fluorophenol (Surr)	*41*		*27 - 110*
Nitrobenzene-d5 (Surr)	*75*		*36 - 120*
Phenol-d5 (Surr)	*31*		*20 - 100*
Terphenyl-d14 (Surr)	*88*		*40 - 145*

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-449092/1-A
Matrix: Solid
Analysis Batch: 450204

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449092

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
Ethylbenzene	<19		25	19	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
Naphthalene	<120		250	120	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
Toluene	<17		25	17	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
Xylenes, Total	<30		75	30	ug/Kg		07/31/17 10:21	08/04/17 14:31	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		07/31/17 10:21	08/04/17 14:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*80 - 120*	*07/31/17 10:21*	*08/04/17 14:31*	*1*
a,a,a-Trifluorotoluene	*94*		*80 - 120*	*07/31/17 10:21*	*08/04/17 14:31*	*1*

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCS 490-449092/2-A
Matrix: Solid
Analysis Batch: 450204

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449092

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5360		ug/Kg		107	76 - 120
Ethylbenzene	5000	5440		ug/Kg		109	77 - 120
Methyl tert-butyl ether	5000	5290		ug/Kg		106	73 - 120
1,2,4-Trimethylbenzene	5000	5110		ug/Kg		102	60 - 140
Naphthalene	5000	4390		ug/Kg		88	74 - 127
1,3,5-Trimethylbenzene	5000	5230		ug/Kg		105	74 - 133
Toluene	5000	5500		ug/Kg		110	79 - 120
Wisconsin GRO	50000	46800		ug/Kg		94	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*80 - 120*
a,a,a-Trifluorotoluene	*89*		*80 - 120*

Lab Sample ID: LCSD 490-449092/3-A
Matrix: Solid
Analysis Batch: 450204

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449092

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	5570		ug/Kg		111	76 - 120	4	27
Ethylbenzene	5000	5560		ug/Kg		111	77 - 120	2	49
Methyl tert-butyl ether	5000	5500		ug/Kg		110	73 - 120	4	31
1,2,4-Trimethylbenzene	5000	5230		ug/Kg		105	60 - 140	2	50
Naphthalene	5000	4620		ug/Kg		92	74 - 127	5	50
1,3,5-Trimethylbenzene	5000	5370		ug/Kg		107	74 - 133	3	42
Toluene	5000	5660		ug/Kg		113	79 - 120	3	37
Wisconsin GRO	50000	48200		ug/Kg		96	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*112*		*80 - 120*
a,a,a-Trifluorotoluene	*96*		*80 - 120*

Method: WI-GRO - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: LB3 500-395116/21-A
Matrix: Solid
Analysis Batch: 396126

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395116

Analyte	LB3 Result	LB3 Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Gasoline Range Organics (C5-C10)	<500		1500	500	ug/Kg		07/29/17 21:45	08/06/17 23:47	50

Lab Sample ID: LCS 500-395116/23-A
Matrix: Solid
Analysis Batch: 396126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395116

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Gasoline Range Organics (C5-C10)	20000	23400		ug/Kg		117	80 - 120

Lab Sample ID: LCSD 500-395116/24-A
Matrix: Solid
Analysis Batch: 396126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 395116

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Gasoline Range Organics (C5-C10)			20000	23700		ug/Kg		118	80 - 120	1	20

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

Lab Sample ID: MB 500-395540/1-A
Matrix: Solid
Analysis Batch: 395598

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395540

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PCB-1016	<5.9		17	5.9	ug/Kg		08/02/17 07:13	08/02/17 19:19	1
PCB-1221	<7.3		17	7.3	ug/Kg		08/02/17 07:13	08/02/17 19:19	1
PCB-1232	<7.3		17	7.3	ug/Kg		08/02/17 07:13	08/02/17 19:19	1
PCB-1242	<5.5		17	5.5	ug/Kg		08/02/17 07:13	08/02/17 19:19	1
PCB-1248	<6.6		17	6.6	ug/Kg		08/02/17 07:13	08/02/17 19:19	1
PCB-1254	<3.6		17	3.6	ug/Kg		08/02/17 07:13	08/02/17 19:19	1
PCB-1260	<8.2		17	8.2	ug/Kg		08/02/17 07:13	08/02/17 19:19	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*103*		*49 - 129*	*08/02/17 07:13*	*08/02/17 19:19*	*1*
DCB Decachlorobiphenyl	*106*		*37 - 121*	*08/02/17 07:13*	*08/02/17 19:19*	*1*

Lab Sample ID: LCS 500-395540/3-A
Matrix: Solid
Analysis Batch: 395598

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395540

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
PCB-1016			167	148		ug/Kg		89	57 - 120
PCB-1260			167	166		ug/Kg		99	61 - 125

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*96*		*49 - 129*
DCB Decachlorobiphenyl	*105*		*37 - 121*

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

Lab Sample ID: MB 500-395241/1-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		07/31/17 10:29	07/31/17 15:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*86*		*44 - 148*	*07/31/17 10:29*	*07/31/17 15:42*	*1*

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

Lab Sample ID: LCS 500-395241/2-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395241

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
WI Diesel Range Organics (C10-C28)	20.0	19.0		mg/Kg		95	70 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*88*		*44 - 148*

Lab Sample ID: LCSD 500-395241/3-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 395241

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)	20.0	19.7		mg/Kg		99	70 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*88*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: LCS 500-395198/2-A
Matrix: Solid
Analysis Batch: 395381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395198

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.100	0.0999		mg/L		100	80 - 120
Barium	0.500	0.506		mg/L		101	80 - 120
Cadmium	0.0500	0.0498		mg/L		100	80 - 120
Chromium	0.200	0.200		mg/L		100	80 - 120
Copper	0.250	0.258		mg/L		103	80 - 120
Lead	0.100	0.0951		mg/L		95	80 - 120
Nickel	0.500	0.498		mg/L		100	80 - 120
Selenium	0.100	0.0963		mg/L		96	80 - 120
Silver	0.0500	0.0490		mg/L		98	80 - 120
Zinc	0.500	0.493		mg/L		99	80 - 120

Lab Sample ID: MB 500-395579/1-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.34		1.0	0.34	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Barium	<0.11		1.0	0.11	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Cadmium	0.0463	J	0.20	0.036	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Chromium	<0.50		1.0	0.50	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Copper	<0.28		1.0	0.28	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Lead	<0.23		0.50	0.23	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Nickel	<0.29		1.0	0.29	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Selenium	<0.59		1.0	0.59	mg/Kg		08/02/17 09:20	08/02/17 20:50	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 500-395579/1-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	<0.13		0.50	0.13	mg/Kg		08/02/17 09:20	08/02/17 20:50	1
Zinc	<0.88		2.0	0.88	mg/Kg		08/02/17 09:20	08/02/17 20:50	1

Lab Sample ID: LCS 500-395579/2-A
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10.0	8.85		mg/Kg		89	80 - 120
Barium	200	199		mg/Kg		99	80 - 120
Cadmium	5.00	4.70		mg/Kg		94	80 - 120
Chromium	20.0	19.6		mg/Kg		98	80 - 120
Copper	25.0	24.3		mg/Kg		97	80 - 120
Lead	10.0	9.21		mg/Kg		92	80 - 120
Nickel	50.0	48.6		mg/Kg		97	80 - 120
Selenium	10.0	8.78		mg/Kg		88	80 - 120
Silver	5.00	4.66		mg/Kg		93	80 - 120
Zinc	50.0	47.9		mg/Kg		96	80 - 120

Lab Sample ID: 500-131811-3 MS
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: GP-46 (2-4)
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.4		10.9	16.4		mg/Kg	☼	92	75 - 125
Barium	67	V	218	325		mg/Kg	☼	119	75 - 125
Cadmium	0.29	B	5.45	4.56		mg/Kg	☼	78	75 - 125
Chromium	21	F1 F2	21.8	90.1	F1	mg/Kg	☼	319	75 - 125
Copper	22	V	27.2	52.5		mg/Kg	☼	113	75 - 125
Lead	22	F1 F2 V	10.9	30.8		mg/Kg	☼	80	75 - 125
Nickel	27	V	54.5	75.7		mg/Kg	☼	89	75 - 125
Selenium	<0.63	F1	10.9	8.05	F1	mg/Kg	☼	74	75 - 125
Silver	<0.14		5.45	4.58		mg/Kg	☼	84	75 - 125
Zinc	66	F1 F2 V	54.5	101	F1	mg/Kg	☼	65	75 - 125

Lab Sample ID: 500-131811-3 MSD
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: GP-46 (2-4)
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.4		11.5	15.1		mg/Kg	☼	75	75 - 125	8	20
Barium	67	V	231	293		mg/Kg	☼	98	75 - 125	10	20
Cadmium	0.29	B	5.77	5.06		mg/Kg	☼	83	75 - 125	10	20
Chromium	21	F1 F2	23.1	47.7	F2	mg/Kg	☼	117	75 - 125	61	20
Copper	22	V	28.8	52.2		mg/Kg	☼	105	75 - 125	1	20
Lead	22	F1 F2 V	11.5	48.2	F1 F2	mg/Kg	☼	226	75 - 125	44	20
Nickel	27	V	57.7	87.2		mg/Kg	☼	104	75 - 125	14	20
Selenium	<0.63	F1	11.5	9.24		mg/Kg	☼	80	75 - 125	14	20
Silver	<0.14		5.77	4.79		mg/Kg	☼	83	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 500-131811-3 MSD
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: GP-46 (2-4)
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Zinc	66	F1 F2 V	57.7	132	F2	mg/Kg	☼	116	75 - 125	27	20

Lab Sample ID: 500-131811-3 DU
Matrix: Solid
Analysis Batch: 395729

Client Sample ID: GP-46 (2-4)
Prep Type: Total/NA
Prep Batch: 395579

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Arsenic	6.4		9.83	F3	mg/Kg	☼	43	20
Barium	67	V	77.1		mg/Kg	☼	14	20
Cadmium	0.29	B	0.341		mg/Kg	☼	18	20
Chromium	21	F1 F2	23.4		mg/Kg	☼	12	20
Copper	22	V	27.0	F3	mg/Kg	☼	21	20
Lead	22	F1 F2 V	34.4	F3	mg/Kg	☼	43	20
Nickel	27	V	31.7		mg/Kg	☼	16	20
Selenium	<0.63	F1	<0.61		mg/Kg	☼	NC	20
Silver	<0.14		<0.13		mg/Kg	☼	NC	20
Zinc	66	F1 F2 V	83.3	F3	mg/Kg	☼	24	20

Lab Sample ID: LB 500-395104/1-B
Matrix: Solid
Analysis Batch: 395381

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 395198

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.010		0.050	0.010	mg/L		07/31/17 08:06	07/31/17 15:54	1
Barium	<0.050		0.50	0.050	mg/L		07/31/17 08:06	07/31/17 15:54	1
Cadmium	<0.0020		0.0050	0.0020	mg/L		07/31/17 08:06	07/31/17 15:54	1
Chromium	<0.010		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 15:54	1
Copper	<0.010		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 15:54	1
Lead	<0.0075		0.050	0.0075	mg/L		07/31/17 08:06	07/31/17 15:54	1
Nickel	<0.010		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 15:54	1
Selenium	<0.020		0.050	0.020	mg/L		07/31/17 08:06	07/31/17 15:54	1
Silver	<0.010		0.025	0.010	mg/L		07/31/17 08:06	07/31/17 15:54	1
Zinc	<0.020		0.10	0.020	mg/L		07/31/17 08:06	07/31/17 15:54	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-395284/12-A
Matrix: Solid
Analysis Batch: 395422

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395284

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/17 14:15	08/01/17 08:40	1

Lab Sample ID: LCS 500-395284/13-A
Matrix: Solid
Analysis Batch: 395422

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395284

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.00200	0.00198		mg/L		99	80 - 120

Lab Sample ID: LB 500-395104/1-C
Matrix: Solid
Analysis Batch: 395422

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 395284

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.00020		0.00020	0.00020	mg/L		07/31/17 14:15	08/01/17 08:52	1

Method: 7471B - Mercury (CVAA)

Lab Sample ID: MB 500-395306/12-A
Matrix: Solid
Analysis Batch: 395419

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395306

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.0056		0.017	0.0056	mg/Kg		07/31/17 16:50	08/01/17 08:55	1

Lab Sample ID: LCS 500-395306/13-A
Matrix: Solid
Analysis Batch: 395419

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395306

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.167	0.168		mg/Kg		100	80 - 120

Method: 9014 - Cyanide

Lab Sample ID: MB 500-395608/1-A
Matrix: Solid
Analysis Batch: 395966

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Total	<0.17		0.50	0.17	mg/Kg		08/03/17 09:55	08/03/17 17:15	1

Lab Sample ID: LCS 500-395608/2-A
Matrix: Solid
Analysis Batch: 395966

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Cyanide, Total	5.00	4.57		mg/Kg		91	80 - 120

Method: 9034 - Sulfide, Acid soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 500-395410/1-A
Matrix: Solid
Analysis Batch: 395424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395410

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<4.7		10	4.7	mg/Kg		08/01/17 11:45	08/01/17 14:20	1

Lab Sample ID: LCS 500-395410/2-A
Matrix: Solid
Analysis Batch: 395424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395410

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	303	328		mg/Kg		108	80 - 120

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Method: SM 2710F - Specific Gravity, Density

Lab Sample ID: 500-131811-4 DU
Matrix: Solid
Analysis Batch: 395896

Client Sample ID: GP-47 (2-4)
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Specific Gravity	1.9963			2.27		NONE				13	

Client Sample ID: GP-46 (2-4)

Lab Sample ID: 500-131811-3
Matrix: Solid
Date Collected: 07/27/17 08:15
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-46 (2-4)

Lab Sample ID: 500-131811-3
Matrix: Solid
Date Collected: 07/27/17 08:15
Date Received: 07/28/17 08:45
Percent Solids: 82.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 08:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 00:05	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 20:58	PJ1	TAL CHI
Total/NA	Prep	7471B			395306	07/31/17 16:50	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395419	08/01/17 09:08	MJD	TAL CHI

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-131811-4
Matrix: Solid
Date Collected: 07/27/17 09:00
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			395624	08/02/17 12:53	JLC	TAL CHI
TCLP	Analysis	8260B		20	395703	08/03/17 17:00	PJH	TAL CHI
TCLP	Leach	1311			395104	07/29/17 14:35	RMP	TAL CHI
TCLP	Prep	3510C			395370	08/01/17 08:17	BSO	TAL CHI
TCLP	Analysis	8270D		1	395460	08/02/17 01:53	AJD	TAL CHI
TCLP	Leach	1311			395104	07/29/17 14:35	RMP	TAL CHI
TCLP	Prep	3010A			395198	07/31/17 08:06	JEF	TAL CHI
TCLP	Analysis	6010B		1	395381	07/31/17 17:30	KML	TAL CHI
TCLP	Leach	1311			395104	07/29/17 14:35	RMP	TAL CHI
TCLP	Prep	7470A			395284	07/31/17 14:15	MJD	TAL CHI
TCLP	Analysis	7470A		1	395422	08/01/17 09:14	MJD	TAL CHI
Total/NA	Analysis	1010		1	395503		ADK	TAL CHI
						(Start) 08/01/17 17:20		
						(End) 08/01/17 18:45		
Total/NA	Prep	9010B			395608	08/03/17 09:55	MAN	TAL CHI
Total/NA	Analysis	9014		1	395966		MAN	TAL CHI
						(Start) 08/03/17 17:22		
						(End) 08/03/17 17:22		
Total/NA	Prep	9030B			395410	08/01/17 11:45	CCK	TAL CHI
Total/NA	Analysis	9034		1	395424	08/01/17 14:24	CCK	TAL CHI
Total/NA	Analysis	9045C		1	396313		SMO	TAL CHI
						(Start) 08/07/17 15:21		
						(End) 08/07/17 15:24		

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-131811-4

Date Collected: 07/27/17 09:00
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9095A		1	395897		ADK	TAL CHI
					(Start)	08/03/17 22:25		
					(End)	08/03/17 22:35		
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI
Total/NA	Analysis	SM 2710F		1	395896		ADK	TAL CHI
					(Start)	08/03/17 22:00		
					(End)	08/03/17 22:04		

Client Sample ID: GP-47 (2-4)

Lab Sample ID: 500-131811-4

Date Collected: 07/27/17 09:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 82.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			395116	07/27/17 09:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 00:30	PJH	TAL CHI
Total/NA	Prep	WI GRO			395116	07/27/17 09:00	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		50	396126	08/07/17 01:36	WRE	TAL CHI
Total/NA	Prep	3541			395540	08/02/17 07:13	STW	TAL CHI
Total/NA	Analysis	8082A		1	395598	08/02/17 22:24	BJH	TAL CHI
Total/NA	Prep	WI DRO PREP			395241	07/31/17 10:29	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	395285	07/31/17 20:24	PJG	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:18	PJ1	TAL CHI
Total/NA	Prep	7471B			395306	07/31/17 16:50	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395419	08/01/17 09:10	MJD	TAL CHI

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-131811-5

Date Collected: 07/27/17 09:05
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-131811-5

Date Collected: 07/27/17 09:05
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 09:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 00:55	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:22	PJ1	TAL CHI
Total/NA	Prep	7471B			395306	07/31/17 16:50	MJD	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: GP-47 (6-8)

Lab Sample ID: 500-131811-5
Date Collected: 07/27/17 09:05
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	7471B		1	395419	08/01/17 09:13	MJD	TAL CHI

Client Sample ID: GP-48 (2-4)

Lab Sample ID: 500-131811-6
Date Collected: 07/27/17 09:15
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-48 (2-4)

Lab Sample ID: 500-131811-6
Date Collected: 07/27/17 09:15
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 84.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 09:15	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 01:20	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:26	PJ1	TAL CHI
Total/NA	Prep	7471B			395306	07/31/17 16:50	MJD	TAL CHI
Total/NA	Analysis	7471B		1	395419	08/01/17 09:20	MJD	TAL CHI

Client Sample ID: GP-51 (2-4)

Lab Sample ID: 500-131811-11
Date Collected: 07/27/17 11:30
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-51 (2-4)

Lab Sample ID: 500-131811-11
Date Collected: 07/27/17 11:30
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 80.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449092	07/31/17 10:21	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450204	08/04/17 16:16	AK1	TAL NSH
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:38	PJ1	TAL CHI

Client Sample ID: GP-51 (14-16)

Lab Sample ID: 500-131811-12
Date Collected: 07/27/17 11:40
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-51 (14-16)

Lab Sample ID: 500-131811-12
Date Collected: 07/27/17 11:40
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449092	07/31/17 10:21	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450204	08/04/17 16:42	AK1	TAL NSH
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:42	PJ1	TAL CHI

Client Sample ID: GP-52 (2-4)

Lab Sample ID: 500-131811-13
Date Collected: 07/27/17 11:15
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-52 (2-4)

Lab Sample ID: 500-131811-13
Date Collected: 07/27/17 11:15
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 83.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449092	07/31/17 10:21	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450204	08/04/17 17:09	AK1	TAL NSH
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:46	PJ1	TAL CHI

Client Sample ID: GP-53 (2-4)

Lab Sample ID: 500-131811-14
Date Collected: 07/27/17 12:00
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-53 (2-4)

Lab Sample ID: 500-131811-14
Date Collected: 07/27/17 12:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449092	07/31/17 10:21	JLP	TAL NSH

Client Sample ID: GP-53 (2-4)

Lab Sample ID: 500-131811-14
Date Collected: 07/27/17 12:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 93.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WDNR		1	450204	08/04/17 17:36	AK1	TAL NSH
Total/NA	Prep	WI DRO PREP			395241	07/31/17 10:29	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	395285	07/31/17 22:09	PJG	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:50	PJ1	TAL CHI

Client Sample ID: GP-54 (2-4)

Lab Sample ID: 500-131811-15
Date Collected: 07/27/17 12:05
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-54 (2-4)

Lab Sample ID: 500-131811-15
Date Collected: 07/27/17 12:05
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449092	07/31/17 10:21	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450204	08/04/17 18:03	AK1	TAL NSH
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:54	PJ1	TAL CHI

Client Sample ID: GP-55 (2-4)

Lab Sample ID: 500-131811-16
Date Collected: 07/27/17 13:00
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-55 (2-4)

Lab Sample ID: 500-131811-16
Date Collected: 07/27/17 13:00
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 13:00	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 01:45	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 21:58	PJ1	TAL CHI

Client Sample ID: GP-55 (6-8)
Date Collected: 07/27/17 13:05
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-55 (6-8)
Date Collected: 07/27/17 13:05
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-17
Matrix: Solid
Percent Solids: 87.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 13:05	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 02:10	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:02	PJ1	TAL CHI

Client Sample ID: GP-56 (0-2)
Date Collected: 07/27/17 13:35
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-18
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-56 (0-2)
Date Collected: 07/27/17 13:35
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-18
Matrix: Solid
Percent Solids: 94.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 13:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 02:35	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:06	PJ1	TAL CHI

Client Sample ID: GP-56 (4-6)
Date Collected: 07/27/17 13:40
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-19
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-56 (4-6)
Date Collected: 07/27/17 13:40
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-19
Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			395116	07/27/17 13:40	WRE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: GP-56 (4-6)

Lab Sample ID: 500-131811-19
Date Collected: 07/27/17 13:40
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	395678	08/03/17 03:00	PJH	TAL CHI
Total/NA	Prep	WI GRO	DL		395116	07/27/17 13:40	WRE	TAL CHI
Total/NA	Analysis	8260B	DL	500	395678	08/03/17 03:25	PJH	TAL CHI
Total/NA	Prep	WI GRO			395116	07/27/17 13:40	WRE	TAL CHI
Total/NA	Analysis	WI-GRO		5000	396126	08/07/17 02:12	WRE	TAL CHI
Total/NA	Prep	WI DRO PREP			395241	07/31/17 10:29	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		2	395285	08/01/17 10:14	PJG	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:10	PJ1	TAL CHI

Client Sample ID: GP-57 (0-2)

Lab Sample ID: 500-131811-20
Date Collected: 07/27/17 14:10
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-57 (0-2)

Lab Sample ID: 500-131811-20
Date Collected: 07/27/17 14:10
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 89.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 14:10	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 03:50	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:14	PJ1	TAL CHI

Client Sample ID: GP-57 (4-6)

Lab Sample ID: 500-131811-21
Date Collected: 07/27/17 14:25
Matrix: Solid
Date Received: 07/28/17 08:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-57 (4-6)

Lab Sample ID: 500-131811-21
Date Collected: 07/27/17 14:25
Matrix: Solid
Date Received: 07/28/17 08:45
Percent Solids: 86.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 14:25	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 04:15	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:26	PJ1	TAL CHI

Client Sample ID: GP-58 (2-4)
Date Collected: 07/27/17 14:30
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-22
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-58 (2-4)
Date Collected: 07/27/17 14:30
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-22
Matrix: Solid
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 14:30	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 04:40	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:30	PJ1	TAL CHI

Client Sample ID: GP-58 (6-8)
Date Collected: 07/27/17 14:35
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-23
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: GP-58 (6-8)
Date Collected: 07/27/17 14:35
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-23
Matrix: Solid
Percent Solids: 83.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 14:35	WRE	TAL CHI
Total/NA	Analysis	8260B		50	395678	08/03/17 05:05	PJH	TAL CHI
Total/NA	Prep	3050B			395579	08/02/17 09:20	BDE	TAL CHI
Total/NA	Analysis	6010B		1	395729	08/02/17 22:34	PJ1	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 07/27/17 00:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-24
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395257	07/31/17 12:31	PFK	TAL CHI

Client Sample ID: Trip Blank
Date Collected: 07/27/17 00:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-24
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			395116	07/27/17 00:00	WRE	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131811-1

Client Sample ID: Trip Blank
Date Collected: 07/27/17 00:00
Date Received: 07/28/17 08:45

Lab Sample ID: 500-131811-24
Matrix: Solid
Percent Solids: 100.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	395678	08/03/17 05:30	PJH	TAL CHI

Laboratory References:

SFAL = SF Analytical Laboratories, 2345 South 170th Street, New Berlin, WI 53151

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 500-131811-1
Project/Site: Multiple Sites Along STH 50 - 278962

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17 *

Laboratory: TestAmerica Nashville

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
A2LA	A2LA		NA: NELAP & A2LA	12-31-17
A2LA	ISO/IEC 17025		0453.07	12-31-17
Alaska (UST)	State Program	10	UST-087	01-01-18
Arizona	State Program	9	AZ0473	05-05-18
Arkansas DEQ	State Program	6	88-0737	04-25-18
California	State Program	9	2938	10-31-18
Connecticut	State Program	1	PH-0220	12-31-17
Florida	NELAP	4	E87358	06-30-18
Georgia	State Program	4	E87358(FL)/453.07(A2LA)	12-31-17
Illinois	NELAP	5	200010	12-09-17
Iowa	State Program	7	131	04-01-18
Kansas	NELAP	7	E-10229	10-31-17
Kentucky (UST)	State Program	4	19	06-30-18
Kentucky (WW)	State Program	4	90038	12-31-17
Louisiana	NELAP	6	30613	06-30-18
Maine	State Program	1	TN00032	11-03-17
Maryland	State Program	3	316	03-31-18
Massachusetts	State Program	1	M-TN032	06-30-18
Minnesota	NELAP	5	047-999-345	12-31-17
Mississippi	State Program	4	N/A	06-30-18
Montana (UST)	State Program	8	NA	02-24-20
Nevada	State Program	9	TN00032	07-31-18
New Hampshire	NELAP	1	2963	10-09-17
New Jersey	NELAP	2	TN965	06-30-18
New York	NELAP	2	11342	03-31-18
North Carolina (WW/SW)	State Program	4	387	12-31-17
North Dakota	State Program	8	R-146	06-30-17 *
Ohio VAP	State Program	5	CL0033	07-06-19
Oklahoma	State Program	6	9412	08-31-17 *
Oregon	NELAP	10	TN200001	04-27-18
Pennsylvania	NELAP	3	68-00585	06-30-18
Rhode Island	State Program	1	LAO00268	12-30-17
South Carolina	State Program	4	84009 (001)	02-28-18
South Carolina (Do Not Use - DW)	State Program	4	84009 (002)	12-16-17
Tennessee	State Program	4	2008	02-23-20
Texas	NELAP	6	T104704077	08-31-17 *
USDA	Federal		P330-13-00306	12-01-19
Utah	NELAP	8	TN00032	07-31-17 *
Virginia	NELAP	3	460152	06-14-18
Washington	State Program	10	C789	07-19-18
West Virginia DEP	State Program	3	219	02-28-18
Wisconsin	State Program	5	998020430	08-31-17 *
Wyoming (UST)	A2LA	8	453.07	12-31-17

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

500-131811 COC

Chain of Custody Record

Lab Job #: 500- 131811

Chain of Custody Number:

Page 1 of 3

Temperature °C of Cooler: (1.8-3.3)(2.2)

Client: TRC | Client Project #: 2789G2

Project Name: multiple sites along STH 50

Project Location/State: Kenosha, WI | Lab Project #:

Sampler: M. Kahrilas | Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	1	6	1	8	8	8	1	8		Comments
							Parameter	VOC's	6 RCRA metals	GRO	DRO	PCB's + 11 RCRA metals	Protocol B	PVOC's + naph	Lead		
1		GP-45 (2-4)	7/27	8:00	3	S		X	X								hold Sample
2		GP-45 (6-8)		8:05				X	X								hold Sample
3		GP-46 (2-4)		8:15				X	X								
4		GP-47 (2-4)		9:00				X		X	X	X	X				
5		GP-47 (6-8)		9:05				X	X								
6		GP-48 (2-4)		9:15				X	X								
7		GP-49 (2-4)		10:00										X	X		hold Sample
8		GP-49 (14-16)		10:05										X	X		hold Sample
9		GP-50 (2-4)		10:45										X	X		hold Sample
10		GP-50 (14-16)	↓	10:50	↓	↓								X	X		hold Sample

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/27/17	1630	[signature]	TA	07/28/17	0845
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier ☐
Shipped ✓
Hand Delivered ☐

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

Chain of Custody Record

Lab Job #: 500-131811

Chain of Custody Number:

Page 2 of 3

Temperature °C of Cooler:

(optional) Report To	(optional) Bill To
Contact:	Contact:
Company:	Company:
Address:	Address:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
E-Mail:	PO#/Reference#

Client: TRC | Client Project #: 278962

Project Name: Multiple sites along STH 50

Project Location/State: Kenosha, WI | Lab Project #:

Sampler: M. Kahrilas | Lab PM:

Preservative Key: 1. HCL, Cool to 4° 2. H2SO4, Cool to 4° 3. HNO3, Cool to 4° 4. NaOH, Cool to 4° 5. NaOH/Zn, Cool to 4° 6. NaHSO4 7. Cool to 4° 8. None 9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative	Parameter: PVOCs + naph	Parameter: Lead	Parameter: GRO	Parameter: DRO	Parameter: VOCs					Comments
								1	8	1	8	1					
11		GP-51 (2-4)	7/27	11:30	3	S		X	X								
12		GP-51 (14-16)		11:40				X	X								
13		GP-52 (2-4)		11:15				X	X								
14		GP-53 (2-4)		12:00				X	X	X	X						
15		GP-54 (2-4)		12:05				X	X								
16		GP-55 (2-4)		13:00					X			X					
17		GP-55 (6-8)		13:05					X			X					
18		GP-56 (0-2)		13:35					X			X					
19		GP-56 (4-6)		13:40			MS	X	X	X	X	X					
20		GP-57 (0-2)		14:10					X			X					

Turnaround Time Required (Business Days)

___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other

Requested Due Date _____

Sample Disposal: [ ] Return to Client [ ] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/27/17	1630	[signature]	TA	07/28/17	0845
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier: [ ] Shipped: [✓] Hand Delivered: [ ]

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131811

Chain of Custody Number:

Page 3 of 3

Temperature °C of Cooler:

Client: TRC | Client Project #: 278902

Project Name: multiple sites along STH 50

Project Location/State: Kenosha, WI | Lab Project #:

Sampler: M. Kehrikas | Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Parameter: VOCs	Parameter: Lead	Comments
21		GP-57 (4-6)	7/27	14:25	3	S	x	x	
22		GP-58 (2-4)		14:30	3		x	x	
23		GP-58 (6-8)		14:35	3		x	x	
24		Trip Blank			2	-	x		

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/27/17	1630	[signature]	TA	07/28/17	0845
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier ☐
Shipped ✓
Hand Delivered ☐

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

500-131811 Waybill

ORIGIN ID:JOTA (708) 534-5200
MIRANDA KAHRILAS
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 19JUL17
ACTWGT: 20.00 LB MAN
CAD: 33264/CAFE3011

TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx Express

FedEx
TRK# 0221 6514 8437 1388

RETURNS MON-FRI
FRI - 28 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US ORD

ORIGIN ID:JOTA (708) 534-5200
MIRANDA KAHRILAS
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 19JUL17
ACTWGT: 20.00 LB MAN
CAD: 33264/CAFE3011

TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466
(708) 534-5200
REF: S500-54927

RMA:

FedEx
TRK# 0221 6514 8437 1399

FRI - 28 JUL 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US ORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-131811 Chain of Custody

Cooler Received/Opened On 7/29/2017 @0930

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 4950 (last 4 digits, FedEx) Courier: _FEDEX_____

IR Gun ID 17960358_____ pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 1.7 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) ES

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) ES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) ES

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) ES

I certify that I attached a label with the unique LIMS number to each container (intial) ES

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# ES

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-131811

TestAmerica — THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	No: -91041.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Page: Page 1 of 1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/4/2017		Job #: 500-131811-1
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: WISDOT	Project #: 50010540		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM PVOC+NAP	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GP-49 (2-4) (500-131811-7)	7/27/17	10:00 Central		Solid			X		1	
GP-49 (14-16) (500-131811-8)	7/27/17	10:05 Central		Solid			X		1	
GP-50 (2-4) (500-131811-9)	7/27/17	10:45 Central		Solid			X		1	
GP-50 (14-16) (500-131811-10)	7/27/17	10:50 Central		Solid			X		1	
GP-51 (2-4) (500-131811-11)	7/27/17	11:30 Central		Solid			X		1	
GP-51 (14-16) (500-131811-12)	7/27/17	11:40 Central		Solid			X		1	
GP-52 (2-4) (500-131811-13)	7/27/17	11:15 Central		Solid			X		1	
GP-53 (2-4) (500-131811-14)	7/27/17	12:00 Central		Solid				X	1	Plus GRO
GP-54 (2-4) (500-131811-15)	7/27/17	12:05 Central		Solid			X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:			
Relinquished by:	Date/Time: 07/28/17 1600	Company TA	Received by:	Date/Time: 7-29-17 9:30	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.7

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131811-1

Login Number: 131811
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	(3.3)(2.2)c
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131811-1

Login Number: 131811
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 07/29/17 12:18 PM

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.	True	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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.	N/A	
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-131886-1
Client Project/Site: Multiple Sites Along STH 50 - 278962

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Bryan Bergmann

Sandie Fredrick

Authorized for release by:
8/25/2017 10:28:47 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Case Narrative

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Job ID: 500-131886-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-131886-1

Comments
No additional comments.

Receipt
The samples were received on 7/29/2017 11:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.2º C.

GC VOA
Method(s) WI-GRO: Surrogate recovery for the following sample was outside control limits: GP-59 (4-6) (500-131886-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-449465 and analytical batch 490-450147.

Method(s) WI-GRO: Surrogate recovery for the following sample was outside control limits: GP-59 (4-6) (500-131886-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

Metals
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
Method(s) WI GRO: added methanol to provide 1:1 ratio. GP-59 (4-6) (500-131886-1), GP-59 (14-16) (500-131886-2), GP-60 (0-2) (500-131886-3), GP-60 (10-12) (500-131886-4), GP-61 (0-2) (500-131886-5), GP-61 (6-8) (500-131886-6), GP-62 (0-2) (500-131886-7), GP-63 (2-4) (500-131886-9), GP-63 (14-16) (500-131886-10) and GP-65 (14-16) (500-131886-14)

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-59 (4-6) — Lab Sample ID: 500-131886-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	4400		130	80	ug/Kg	4	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	7400		130	80	ug/Kg	4	☼	WDNR	Total/NA
Benzene	1900		130	96	ug/Kg	4	☼	WDNR	Total/NA
Ethylbenzene	14000		130	100	ug/Kg	4	☼	WDNR	Total/NA
Methyl tert-butyl ether	6200		130	64	ug/Kg	4	☼	WDNR	Total/NA
Naphthalene	16000		1300	640	ug/Kg	4	☼	WDNR	Total/NA
Toluene	850		130	91	ug/Kg	4	☼	WDNR	Total/NA
Xylenes, Total	6900		400	160	ug/Kg	4	☼	WDNR	Total/NA
Wisconsin GRO	810000		27000	13000	ug/Kg	4	☼	WDNR	Total/NA
WI Diesel Range Organics (C10-C28)	39		7.0	2.8	mg/Kg	1	☼	WI-DRO	Total/NA
Lead	19		0.66	0.30	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-59 (14-16) — Lab Sample ID: 500-131886-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	290		280	130	ug/Kg	1	☼	WDNR	Total/NA
Toluene	27	J	28	19	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	49		28	17	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	32		28	17	ug/Kg	1	☼	WDNR	Total/NA
Lead	9.4		0.53	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-60 (0-2) — Lab Sample ID: 500-131886-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19		0.55	0.25	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-60 (10-12) — Lab Sample ID: 500-131886-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.9		0.56	0.26	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-61 (0-2) — Lab Sample ID: 500-131886-5

No Detections.

Client Sample ID: GP-61 (6-8) — Lab Sample ID: 500-131886-6

No Detections.

Client Sample ID: GP-62 (0-2) — Lab Sample ID: 500-131886-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Ethylbenzene	26	J	30	23	ug/Kg	1	☼	WDNR	Total/NA
Toluene	43		30	20	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	35		30	18	ug/Kg	1	☼	WDNR	Total/NA
Xylenes, Total	64	J	90	36	ug/Kg	1	☼	WDNR	Total/NA
Lead	22		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-62 (4-6) — Lab Sample ID: 500-131886-8

This Detection Summary does not include radiochemical test results.

TestAmerica Chicago

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-62 (4-6) (Continued) — Lab Sample ID: 500-131886-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	10		0.51	0.24	mg/Kg	1	☼	6010B	Total/NA

Client Sample ID: GP-63 (2-4) — Lab Sample ID: 500-131886-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	29	J	44	21	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-63 (14-16) — Lab Sample ID: 500-131886-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	260	J	300	140	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	18	J	30	18	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-64 (2-4) — Lab Sample ID: 500-131886-11

No Detections.

Client Sample ID: GP-64 (10-11) — Lab Sample ID: 500-131886-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	330		250	120	ug/Kg	1	☼	WDNR	Total/NA
1,2,4-Trimethylbenzene	27		25	15	ug/Kg	1	☼	WDNR	Total/NA
1,3,5-Trimethylbenzene	18	J	25	15	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-65 (2-4) — Lab Sample ID: 500-131886-13

No Detections.

Client Sample ID: GP-65 (14-16) — Lab Sample ID: 500-131886-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2,4-Trimethylbenzene	45		32	19	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 500-131886-15

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
WI-DRO	Wisconsin - Diesel Range Organics (GC)	WI-DRO	TAL CHI
6010B	Metals (ICP)	SW846	TAL CHI
Moisture	Percent Moisture	EPA	TAL CHI
Moisture	Percent Moisture	EPA	TAL NSH

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.

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-131886-1	GP-59 (4-6)	Solid	07/28/17 07:45	07/29/17 11:10
500-131886-2	GP-59 (14-16)	Solid	07/28/17 07:50	07/29/17 11:10
500-131886-3	GP-60 (0-2)	Solid	07/28/17 08:15	07/29/17 11:10
500-131886-4	GP-60 (10-12)	Solid	07/28/17 08:20	07/29/17 11:10
500-131886-5	GP-61 (0-2)	Solid	07/28/17 09:10	07/29/17 11:10
500-131886-6	GP-61 (6-8)	Solid	07/28/17 09:15	07/29/17 11:10
500-131886-7	GP-62 (0-2)	Solid	07/28/17 09:35	07/29/17 11:10
500-131886-8	GP-62 (4-6)	Solid	07/28/17 09:40	07/29/17 11:10
500-131886-9	GP-63 (2-4)	Solid	07/28/17 10:20	07/29/17 11:10
500-131886-10	GP-63 (14-16)	Solid	07/28/17 10:40	07/29/17 11:10
500-131886-11	GP-64 (2-4)	Solid	07/28/17 11:10	07/29/17 11:10
500-131886-12	GP-64 (10-11)	Solid	07/28/17 11:20	07/29/17 11:10
500-131886-13	GP-65 (2-4)	Solid	07/28/17 11:55	07/29/17 11:10
500-131886-14	GP-65 (14-16)	Solid	07/28/17 12:05	07/29/17 11:10
500-131886-15	Trip Blank	Solid	07/28/17 00:00	07/29/17 11:10

Client Sample ID: GP-59 (4-6)

Date Collected: 07/28/17 07:45
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-1

Matrix: Solid
Percent Solids: 75.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	4400		130	80	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
1,3,5-Trimethylbenzene	7400		130	80	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Benzene	1900		130	96	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Ethylbenzene	14000		130	100	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Methyl tert-butyl ether	6200		130	64	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Naphthalene	16000		1300	640	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Toluene	850		130	91	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Xylenes, Total	6900		400	160	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4
Wisconsin GRO	810000		27000	13000	ug/Kg	☼	08/01/17 13:10	08/04/17 10:45	4

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*150*	*X*	*80 - 120*	*08/01/17 13:10*	*08/04/17 10:45*	*4*
a,a,a-Trifluorotoluene	*100*		*80 - 120*	*08/01/17 13:10*	*08/04/17 10:45*	*4*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	39		7.0	2.8	mg/Kg	☼	07/31/17 10:29	07/31/17 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*80*		*44 - 148*	*07/31/17 10:29*	*07/31/17 23:20*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		0.66	0.30	mg/Kg	☼	08/01/17 08:00	08/01/17 16:57	1

Client Sample ID: GP-59 (14-16)

Date Collected: 07/28/17 07:50
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-2

Matrix: Solid
Percent Solids: 87.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
Ethylbenzene	<21		28	21	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
Methyl tert-butyl ether	<13		28	13	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
Naphthalene	290		280	130	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
Toluene	27	J	28	19	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
1,2,4-Trimethylbenzene	49		28	17	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
1,3,5-Trimethylbenzene	32		28	17	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1
Xylenes, Total	<33		83	33	ug/Kg	☼	08/01/17 13:10	08/04/17 10:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*105*		*80 - 120*	*08/01/17 13:10*	*08/04/17 10:19*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.4		0.53	0.25	mg/Kg	☼	08/01/17 08:00	08/01/17 17:01	1

Client Sample ID: GP-60 (0-2)

Lab Sample ID: 500-131886-3
Date Collected: 07/28/17 08:15
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 83.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
Ethylbenzene	<23		30	23	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
Methyl tert-butyl ether	<15		30	15	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
Naphthalene	<150		300	150	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
Toluene	<21		30	21	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1
Xylenes, Total	<37		91	37	ug/Kg	☼	08/01/17 13:10	08/03/17 22:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*106*		*80 - 120*	*08/01/17 13:10*	*08/03/17 22:59*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**19**		0.55	0.25	mg/Kg	☼	08/01/17 08:00	08/01/17 17:04	1

Client Sample ID: GP-60 (10-12)

Lab Sample ID: 500-131886-4
Date Collected: 07/28/17 08:20
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 85.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
Ethylbenzene	<23		30	23	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
Naphthalene	<140		300	140	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
Toluene	<20		30	20	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1
Xylenes, Total	<36		89	36	ug/Kg	☼	08/01/17 13:10	08/03/17 23:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*08/01/17 13:10*	*08/03/17 23:25*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**8.9**		0.56	0.26	mg/Kg	☼	08/01/17 08:00	08/01/17 17:08	1

Client Sample ID: GP-61 (0-2)

Lab Sample ID: 500-131886-5
Date Collected: 07/28/17 09:10
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 79.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1
Ethylbenzene	<24		32	24	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1
Naphthalene	<150		320	150	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1
Toluene	<22		32	22	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1

Client Sample ID: GP-61 (0-2)

Lab Sample ID: 500-131886-5
Date Collected: 07/28/17 09:10
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 79.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<38		96	38	ug/Kg	☼	08/01/17 13:10	08/03/17 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*80 - 120*	*08/01/17 13:10*	*08/03/17 23:52*	*1*

Client Sample ID: GP-61 (6-8)

Lab Sample ID: 500-131886-6
Date Collected: 07/28/17 09:15
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 87.1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
Ethylbenzene	<22		30	22	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
Naphthalene	<140		300	140	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
Toluene	<20		30	20	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1
Xylenes, Total	<36		89	36	ug/Kg	☼	08/01/17 13:10	08/04/17 00:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*114*		*80 - 120*	*08/01/17 13:10*	*08/04/17 00:19*	*1*

Client Sample ID: GP-62 (0-2)

Lab Sample ID: 500-131886-7
Date Collected: 07/28/17 09:35
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 81.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
Ethylbenzene	**26**	**J**	30	23	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
Naphthalene	<140		300	140	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
Toluene	**43**		30	20	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
1,2,4-Trimethylbenzene	**35**		30	18	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1
Xylenes, Total	**64**	**J**	90	36	ug/Kg	☼	08/01/17 13:10	08/04/17 00:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*112*		*80 - 120*	*08/01/17 13:10*	*08/04/17 00:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**22**		0.51	0.24	mg/Kg	☼	08/01/17 08:00	08/01/17 17:12	1

Client Sample ID: GP-62 (4-6)

Lab Sample ID: 500-131886-8
Date Collected: 07/28/17 09:40
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 84.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
Ethylbenzene	<25		32	25	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
Methyl tert-butyl ether	<16		32	16	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
Naphthalene	<160		320	160	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
Toluene	<22		32	22	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
1,2,4-Trimethylbenzene	<19		32	19	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1
Xylenes, Total	<39		97	39	ug/Kg	☼	08/01/17 13:10	08/04/17 01:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*111*		*80 - 120*	*08/01/17 13:10*	*08/04/17 01:13*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	**10**		0.51	0.24	mg/Kg	☼	08/01/17 08:00	08/01/17 17:16	1

Client Sample ID: GP-63 (2-4)

Lab Sample ID: 500-131886-9
Date Collected: 07/28/17 10:20
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 57.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<31		44	31	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
Ethylbenzene	<33		44	33	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
Methyl tert-butyl ether	**29**	**J**	44	21	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
Naphthalene	<210		440	210	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
Toluene	<30		44	30	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
1,2,4-Trimethylbenzene	<26		44	26	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
1,3,5-Trimethylbenzene	<26		44	26	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1
Xylenes, Total	<52		130	52	ug/Kg	☼	08/01/17 13:10	08/04/17 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*80 - 120*	*08/01/17 13:10*	*08/04/17 01:39*	*1*

Client Sample ID: GP-63 (14-16)

Lab Sample ID: 500-131886-10
Date Collected: 07/28/17 10:40
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 85.8

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		30	21	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
Ethylbenzene	<23		30	23	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
Methyl tert-butyl ether	<14		30	14	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
Naphthalene	**260**	**J**	300	140	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
Toluene	<20		30	20	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
1,2,4-Trimethylbenzene	**18**	**J**	30	18	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1
Xylenes, Total	<36		89	36	ug/Kg	☼	08/01/17 13:10	08/04/17 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*107*		*80 - 120*	*08/01/17 13:10*	*08/04/17 03:26*	*1*

Client Sample ID: GP-64 (2-4)

Lab Sample ID: 500-131886-11
Date Collected: 07/28/17 11:10
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 60.5

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<32		45	32	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
Ethylbenzene	<34		45	34	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
Methyl tert-butyl ether	<22		45	22	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
Naphthalene	<220		450	220	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
Toluene	<31		45	31	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
1,2,4-Trimethylbenzene	<27		45	27	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
1,3,5-Trimethylbenzene	<27		45	27	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1
Xylenes, Total	<54		140	54	ug/Kg	☼	08/01/17 13:10	08/04/17 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*80 - 120*	*08/01/17 13:10*	*08/04/17 03:53*	*1*

Client Sample ID: GP-64 (10-11)

Lab Sample ID: 500-131886-12
Date Collected: 07/28/17 11:20
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 86.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
Ethylbenzene	<19		25	19	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
Naphthalene	**330**		250	120	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
Toluene	<17		25	17	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
1,2,4-Trimethylbenzene	**27**		25	15	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
1,3,5-Trimethylbenzene	**18**	**J**	25	15	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1
Xylenes, Total	<30		76	30	ug/Kg	☼	08/01/17 13:10	08/04/17 04:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*110*		*80 - 120*	*08/01/17 13:10*	*08/04/17 04:20*	*1*

Client Sample ID: GP-65 (2-4)

Lab Sample ID: 500-131886-13
Date Collected: 07/28/17 11:55
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 40.9

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<40		56	40	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
Ethylbenzene	<42		56	42	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
Methyl tert-butyl ether	<27		56	27	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
Naphthalene	<270		560	270	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
Toluene	<38		56	38	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
1,2,4-Trimethylbenzene	<33		56	33	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
1,3,5-Trimethylbenzene	<33		56	33	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1
Xylenes, Total	<67		170	67	ug/Kg	☼	08/01/17 13:10	08/04/17 04:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*108*		*80 - 120*	*08/01/17 13:10*	*08/04/17 04:47*	*1*

Client Sample ID: GP-65 (14-16)

Lab Sample ID: 500-131886-14
Date Collected: 07/28/17 12:05
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 80.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<23		32	23	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
Ethylbenzene	<24		32	24	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
Methyl tert-butyl ether	<15		32	15	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
Naphthalene	<150		320	150	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
Toluene	<21		32	21	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
1,2,4-Trimethylbenzene	**45**		32	19	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
1,3,5-Trimethylbenzene	<19		32	19	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1
Xylenes, Total	<38		95	38	ug/Kg	☼	08/01/17 13:10	08/04/17 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*109*		*80 - 120*	*08/01/17 13:10*	*08/04/17 05:14*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 500-131886-15
Date Collected: 07/28/17 00:00
Matrix: Solid
Date Received: 07/29/17 11:10

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
Ethylbenzene	<19		25	19	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
Naphthalene	<120		250	120	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
Toluene	<17		25	17	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		08/01/17 13:10	08/03/17 21:38	1
Xylenes, Total	<30		75	30	ug/Kg		08/01/17 13:10	08/03/17 21:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*104*		*80 - 120*	*08/01/17 13:10*	*08/03/17 21:38*	*1*

Definitions/Glossary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

GC VOA

Prep Batch: 449465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	WI GRO	
500-131886-2	GP-59 (14-16)	Total/NA	Solid	WI GRO	
500-131886-3	GP-60 (0-2)	Total/NA	Solid	WI GRO	
500-131886-4	GP-60 (10-12)	Total/NA	Solid	WI GRO	
500-131886-5	GP-61 (0-2)	Total/NA	Solid	WI GRO	
500-131886-6	GP-61 (6-8)	Total/NA	Solid	WI GRO	
500-131886-7	GP-62 (0-2)	Total/NA	Solid	WI GRO	
500-131886-8	GP-62 (4-6)	Total/NA	Solid	WI GRO	
500-131886-9	GP-63 (2-4)	Total/NA	Solid	WI GRO	
500-131886-10	GP-63 (14-16)	Total/NA	Solid	WI GRO	
500-131886-11	GP-64 (2-4)	Total/NA	Solid	WI GRO	
500-131886-12	GP-64 (10-11)	Total/NA	Solid	WI GRO	
500-131886-13	GP-65 (2-4)	Total/NA	Solid	WI GRO	
500-131886-14	GP-65 (14-16)	Total/NA	Solid	WI GRO	
500-131886-15	Trip Blank	Total/NA	Solid	WI GRO	
MB 490-449465/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-449465/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-449465/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 450147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	WDNR	449465
500-131886-2	GP-59 (14-16)	Total/NA	Solid	WDNR	449465
500-131886-3	GP-60 (0-2)	Total/NA	Solid	WDNR	449465
500-131886-4	GP-60 (10-12)	Total/NA	Solid	WDNR	449465
500-131886-5	GP-61 (0-2)	Total/NA	Solid	WDNR	449465
500-131886-6	GP-61 (6-8)	Total/NA	Solid	WDNR	449465
500-131886-7	GP-62 (0-2)	Total/NA	Solid	WDNR	449465
500-131886-8	GP-62 (4-6)	Total/NA	Solid	WDNR	449465
500-131886-9	GP-63 (2-4)	Total/NA	Solid	WDNR	449465
500-131886-10	GP-63 (14-16)	Total/NA	Solid	WDNR	449465
500-131886-11	GP-64 (2-4)	Total/NA	Solid	WDNR	449465
500-131886-12	GP-64 (10-11)	Total/NA	Solid	WDNR	449465
500-131886-13	GP-65 (2-4)	Total/NA	Solid	WDNR	449465
500-131886-14	GP-65 (14-16)	Total/NA	Solid	WDNR	449465
500-131886-15	Trip Blank	Total/NA	Solid	WDNR	449465
MB 490-449465/1-A	Method Blank	Total/NA	Solid	WDNR	449465
LCS 490-449465/2-A	Lab Control Sample	Total/NA	Solid	WDNR	449465
LCSD 490-449465/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	449465

GC Semi VOA

Prep Batch: 395241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	WI DRO PREP	
MB 500-395241/1-A	Method Blank	Total/NA	Solid	WI DRO PREP	
LCS 500-395241/2-A	Lab Control Sample	Total/NA	Solid	WI DRO PREP	
LCSD 500-395241/3-A	Lab Control Sample Dup	Total/NA	Solid	WI DRO PREP	

GC Semi VOA (Continued)

Analysis Batch: 395285

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	WI-DRO	395241
MB 500-395241/1-A	Method Blank	Total/NA	Solid	WI-DRO	395241
LCS 500-395241/2-A	Lab Control Sample	Total/NA	Solid	WI-DRO	395241
LCSD 500-395241/3-A	Lab Control Sample Dup	Total/NA	Solid	WI-DRO	395241

Metals

Prep Batch: 395329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	3050B	
500-131886-2	GP-59 (14-16)	Total/NA	Solid	3050B	
500-131886-3	GP-60 (0-2)	Total/NA	Solid	3050B	
500-131886-4	GP-60 (10-12)	Total/NA	Solid	3050B	
500-131886-7	GP-62 (0-2)	Total/NA	Solid	3050B	
500-131886-8	GP-62 (4-6)	Total/NA	Solid	3050B	
MB 500-395329/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 500-395329/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Analysis Batch: 395570

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	6010B	395329
500-131886-2	GP-59 (14-16)	Total/NA	Solid	6010B	395329
500-131886-3	GP-60 (0-2)	Total/NA	Solid	6010B	395329
500-131886-4	GP-60 (10-12)	Total/NA	Solid	6010B	395329
500-131886-7	GP-62 (0-2)	Total/NA	Solid	6010B	395329
500-131886-8	GP-62 (4-6)	Total/NA	Solid	6010B	395329
MB 500-395329/1-A	Method Blank	Total/NA	Solid	6010B	395329
LCS 500-395329/2-A	Lab Control Sample	Total/NA	Solid	6010B	395329

General Chemistry

Analysis Batch: 395256

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-1	GP-59 (4-6)	Total/NA	Solid	Moisture	
500-131886-2	GP-59 (14-16)	Total/NA	Solid	Moisture	
500-131886-3	GP-60 (0-2)	Total/NA	Solid	Moisture	
500-131886-4	GP-60 (10-12)	Total/NA	Solid	Moisture	
500-131886-5	GP-61 (0-2)	Total/NA	Solid	Moisture	
500-131886-6	GP-61 (6-8)	Total/NA	Solid	Moisture	
500-131886-7	GP-62 (0-2)	Total/NA	Solid	Moisture	
500-131886-8	GP-62 (4-6)	Total/NA	Solid	Moisture	
500-131886-5 DU	GP-61 (0-2)	Total/NA	Solid	Moisture	

Analysis Batch: 449452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-9	GP-63 (2-4)	Total/NA	Solid	Moisture	
500-131886-10	GP-63 (14-16)	Total/NA	Solid	Moisture	
500-131886-11	GP-64 (2-4)	Total/NA	Solid	Moisture	
500-131886-12	GP-64 (10-11)	Total/NA	Solid	Moisture	
500-131886-13	GP-65 (2-4)	Total/NA	Solid	Moisture	

General Chemistry (Continued)

Analysis Batch: 449452 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-131886-14	GP-65 (14-16)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	TFT (80-120)	TFT (80-120)
500-131886-1	GP-59 (4-6)	150 X	150 X
500-131886-2	GP-59 (14-16)	105	105
500-131886-3	GP-60 (0-2)	106	106
500-131886-4	GP-60 (10-12)	112	112
500-131886-5	GP-61 (0-2)	109	109
500-131886-6	GP-61 (6-8)	114	114
500-131886-7	GP-62 (0-2)	112	112
500-131886-8	GP-62 (4-6)	111	111
500-131886-9	GP-63 (2-4)	109	109
500-131886-10	GP-63 (14-16)	107	107
500-131886-11	GP-64 (2-4)	110	110
500-131886-12	GP-64 (10-11)	110	110
500-131886-13	GP-65 (2-4)	108	108
500-131886-14	GP-65 (14-16)	109	109
500-131886-15	Trip Blank	104	104
LCS 490-449465/2-A	Lab Control Sample	105	105
LCSD 490-449465/3-A	Lab Control Sample Dup	108	108
MB 490-449465/1-A	Method Blank	102	102

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

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

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	C9 (44-148)
500-131886-1	GP-59 (4-6)	80
LCS 500-395241/2-A	Lab Control Sample	88
LCSD 500-395241/3-A	Lab Control Sample Dup	88
MB 500-395241/1-A	Method Blank	86

Surrogate Legend

C9 = n-Nonane

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-449465/1-A
Matrix: Solid
Analysis Batch: 450147

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449465

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
Ethylbenzene	<19		25	19	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
Naphthalene	<120		250	120	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
Toluene	<17		25	17	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
Xylenes, Total	<30		75	30	ug/Kg		08/01/17 13:10	08/03/17 21:12	1
Wisconsin GRO	<2500		5000	2500	ug/Kg		08/01/17 13:10	08/03/17 21:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*80 - 120*	*08/01/17 13:10*	*08/03/17 21:12*	*1*
a,a,a-Trifluorotoluene	*93*		*80 - 120*	*08/01/17 13:10*	*08/03/17 21:12*	*1*

Lab Sample ID: LCS 490-449465/2-A
Matrix: Solid
Analysis Batch: 450147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449465

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5000	5520		ug/Kg		110	76 - 120
Ethylbenzene	5000	5570		ug/Kg		111	77 - 120
Methyl tert-butyl ether	5000	5250		ug/Kg		105	73 - 120
1,2,4-Trimethylbenzene	5000	5230		ug/Kg		105	60 - 140
Naphthalene	5000	4610		ug/Kg		92	74 - 127
1,3,5-Trimethylbenzene	5000	5370		ug/Kg		107	74 - 133
Toluene	5000	5620		ug/Kg		112	79 - 120
Wisconsin GRO	50000	48200		ug/Kg		96	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*105*		*80 - 120*
a,a,a-Trifluorotoluene	*91*		*80 - 120*

Lab Sample ID: LCSD 490-449465/3-A
Matrix: Solid
Analysis Batch: 450147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449465

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5000	5360		ug/Kg		107	76 - 120	3	27
Ethylbenzene	5000	5390		ug/Kg		108	77 - 120	3	49
Methyl tert-butyl ether	5000	5420		ug/Kg		108	73 - 120	3	31
1,2,4-Trimethylbenzene	5000	5090		ug/Kg		102	60 - 140	3	50
Naphthalene	5000	4610		ug/Kg		92	74 - 127	0	50
1,3,5-Trimethylbenzene	5000	5220		ug/Kg		104	74 - 133	3	42
Toluene	5000	5510		ug/Kg		110	79 - 120	2	37
Wisconsin GRO	50000	46900		ug/Kg		94	80 - 120	3	20

Method: WDNR - Wisconsin - Gasoline Range Organics (GC) (Continued)

Lab Sample ID: LCSD 490-449465/3-A
Matrix: Solid
Analysis Batch: 450147

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 449465

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*108*		*80 - 120*
a,a,a-Trifluorotoluene	*89*		*80 - 120*

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

Lab Sample ID: MB 500-395241/1-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395241

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
WI Diesel Range Organics (C10-C28)	<1.6		4.0	1.6	mg/Kg		07/31/17 10:29	07/31/17 15:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Nonane	*86*		*44 - 148*	*07/31/17 10:29*	*07/31/17 15:42*	*1*

Lab Sample ID: LCS 500-395241/2-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395241

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
WI Diesel Range Organics (C10-C28)			20.0	19.0		mg/Kg		95	70 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Nonane	*88*		*44 - 148*

Lab Sample ID: LCSD 500-395241/3-A
Matrix: Solid
Analysis Batch: 395285

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 395241

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
WI Diesel Range Organics (C10-C28)			20.0	19.7		mg/Kg		99	70 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Nonane	*88*		*44 - 148*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 500-395329/1-A
Matrix: Solid
Analysis Batch: 395570

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 395329

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	<0.23		0.50	0.23	mg/Kg		08/01/17 08:00	08/01/17 16:27	1

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 500-395329/2-A
Matrix: Solid
Analysis Batch: 395570

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 395329

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.0	9.06		mg/Kg		91	80 - 120

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-59 (4-6)
Date Collected: 07/28/17 07:45
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-59 (4-6)
Date Collected: 07/28/17 07:45
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-1
Matrix: Solid
Percent Solids: 75.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		4	450147	08/04/17 10:45	AK1	TAL NSH
Total/NA	Prep	WI DRO PREP			395241	07/31/17 10:29	DAK	TAL CHI
Total/NA	Analysis	WI-DRO		1	395285	07/31/17 23:20	PJG	TAL CHI
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 16:57	PJ1	TAL CHI

Client Sample ID: GP-59 (14-16)
Date Collected: 07/28/17 07:50
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-59 (14-16)
Date Collected: 07/28/17 07:50
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-2
Matrix: Solid
Percent Solids: 87.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 10:19	AK1	TAL NSH
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 17:01	PJ1	TAL CHI

Client Sample ID: GP-60 (0-2)
Date Collected: 07/28/17 08:15
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-60 (0-2)

Lab Sample ID: 500-131886-3
Date Collected: 07/28/17 08:15
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 83.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/03/17 22:59	AK1	TAL NSH
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 17:04	PJ1	TAL CHI

Client Sample ID: GP-60 (10-12)

Lab Sample ID: 500-131886-4
Date Collected: 07/28/17 08:20
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-60 (10-12)

Lab Sample ID: 500-131886-4
Date Collected: 07/28/17 08:20
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/03/17 23:25	AK1	TAL NSH
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 17:08	PJ1	TAL CHI

Client Sample ID: GP-61 (0-2)

Lab Sample ID: 500-131886-5
Date Collected: 07/28/17 09:10
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-61 (0-2)

Lab Sample ID: 500-131886-5
Date Collected: 07/28/17 09:10
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 79.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/03/17 23:52	AK1	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-61 (6-8)
Date Collected: 07/28/17 09:15
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-61 (6-8)
Date Collected: 07/28/17 09:15
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-6
Matrix: Solid
Percent Solids: 87.1

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 00:19	AK1	TAL NSH

Client Sample ID: GP-62 (0-2)
Date Collected: 07/28/17 09:35
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-62 (0-2)
Date Collected: 07/28/17 09:35
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-7
Matrix: Solid
Percent Solids: 81.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 00:46	AK1	TAL NSH
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI
Total/NA	Analysis	6010B		1	395570	08/01/17 17:12	PJ1	TAL CHI

Client Sample ID: GP-62 (4-6)
Date Collected: 07/28/17 09:40
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	395256	07/31/17 13:48	PFK	TAL CHI

Client Sample ID: GP-62 (4-6)
Date Collected: 07/28/17 09:40
Date Received: 07/29/17 11:10

Lab Sample ID: 500-131886-8
Matrix: Solid
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 01:13	AK1	TAL NSH
Total/NA	Prep	3050B			395329	08/01/17 08:00	JEF	TAL CHI

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-62 (4-6)

Lab Sample ID: 500-131886-8
Date Collected: 07/28/17 09:40
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		1	395570	08/01/17 17:16	PJ1	TAL CHI

Client Sample ID: GP-63 (2-4)

Lab Sample ID: 500-131886-9
Date Collected: 07/28/17 10:20
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449452	08/01/17 12:34	BAA	TAL NSH

Client Sample ID: GP-63 (2-4)

Lab Sample ID: 500-131886-9
Date Collected: 07/28/17 10:20
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 57.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 01:39	AK1	TAL NSH

Client Sample ID: GP-63 (14-16)

Lab Sample ID: 500-131886-10
Date Collected: 07/28/17 10:40
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449452	08/01/17 12:34	BAA	TAL NSH

Client Sample ID: GP-63 (14-16)

Lab Sample ID: 500-131886-10
Date Collected: 07/28/17 10:40
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 85.8

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 03:26	AK1	TAL NSH

Client Sample ID: GP-64 (2-4)

Lab Sample ID: 500-131886-11
Date Collected: 07/28/17 11:10
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449452	08/01/17 12:34	BAA	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-64 (2-4)

Lab Sample ID: 500-131886-11
Date Collected: 07/28/17 11:10
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 60.5

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 03:53	AK1	TAL NSH

Client Sample ID: GP-64 (10-11)

Lab Sample ID: 500-131886-12
Date Collected: 07/28/17 11:20
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449452	08/01/17 12:34	BAA	TAL NSH

Client Sample ID: GP-64 (10-11)

Lab Sample ID: 500-131886-12
Date Collected: 07/28/17 11:20
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 04:20	AK1	TAL NSH

Client Sample ID: GP-65 (2-4)

Lab Sample ID: 500-131886-13
Date Collected: 07/28/17 11:55
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449452	08/01/17 12:34	BAA	TAL NSH

Client Sample ID: GP-65 (2-4)

Lab Sample ID: 500-131886-13
Date Collected: 07/28/17 11:55
Matrix: Solid
Date Received: 07/29/17 11:10
Percent Solids: 40.9

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 04:47	AK1	TAL NSH

Client Sample ID: GP-65 (14-16)

Lab Sample ID: 500-131886-14
Date Collected: 07/28/17 12:05
Matrix: Solid
Date Received: 07/29/17 11:10

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	449452	08/01/17 12:34	BAA	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: Multiple Sites Along STH 50 - 278962

TestAmerica Job ID: 500-131886-1

Client Sample ID: GP-65 (14-16)

Lab Sample ID: 500-131886-14

Date Collected: 07/28/17 12:05
Date Received: 07/29/17 11:10

Matrix: Solid
Percent Solids: 80.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/04/17 05:14	AK1	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 500-131886-15

Date Collected: 07/28/17 00:00
Date Received: 07/29/17 11:10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			449465	08/01/17 13:10	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	450147	08/03/17 21:38	AK1	TAL NSH

Laboratory References:

TAL CHI = TestAmerica Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200
TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 500-131886-1
Project/Site: Multiple Sites Along STH 50 - 278962

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-17 *

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131886

Chain of Custody Number:

Page 1 of 2

Temperature °C of Cooler: 4.2

Client: TRC
Client Project #: 278962
Project Name: multiple sites along STH 50
Project Location/State: Kenosha, WI
Lab Project #:
Sampler: M. Kahrilas
Lab PM:

Preservative: 1 | 8 | 1 | 8
Parameter: PVOCs + Nap | Lead | GRO | DRO

500-131886 COC

8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	PVOCs + Nap	Lead	GRO	DRO	Comments
1		GP-59 (4-6)	7/28	7:45	4	S	X	X	X	X	
2		GP-59 (14-16)		7:50	3		X	X			
3		GP-60 (0-2)		8:15			X	X			
4		GP-60 (10-12)		8:20			X	X			
5		GP-61 (0-2)		9:10			X	X			hold sample
6		GP-61 (6-8)		9:15			X	X			Hold Sample
7		GP-62 (0-2)		9:35			X	X			
8		GP-62 (4-6)		9:40			X	X			
9		GP-63 (2-4)		10:20	2		X	NP			Just PVOCs + Nap
10		GP-63 (14-16)		10:40	2		X	NP			Just PVOCs + Nap

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
[ ] Return to Client [ ] Disposal by Lab [ ] Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
[signature]	TRC	7/28/17	1630	[signature]	TALTE	07/29/17	1110
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped FX STATUrday
Hand Delivered

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact:
Company:
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-131886

Chain of Custody Number:

Page 2 of 2

Temperature °C of Cooler: 4.2

Client: TRC
Client Project #: 278962
Project Name: Multiple sites along STH 50
Project Location/State: Kenosha, WI
Lab Project #:
Sampler: M. Kahrilas
Lab PM:

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Preservative: 1 / Parameter: PVOCs map	Comments
11		GP-64 (2-4)	7/28	11:10	3	S	X	
12		GP-64 (10-11)		11:20			X	
13		GP-65 (2-4)		11:55			X	
14		GP-65 (14-16)		12:05			X	
15		Trip Blank					X	

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days X 5 Days ___ 7 Days ___ 10 Days ___ 15 Days _____ Other
Requested Due Date

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
	TRC	7/28/17	1630	Neil Sandy	TALME	07/29/17	1110
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier:
Shipped: FX SATURday
Hand Delivered:

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments:

Lab Comments:

TAL-4124-500 (1209)

8/25/2017

500-131886 Waybill

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

500-131886 Chain of Custody

COOLER RECEIPT FORM

Cooler Received/Opened On 8/1/2017 @ 1030

Time Samples Removed From Cooler_____ Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 5718 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID_160656838_ pH Strip Lot_____ Chlorine Strip Lot_____

2. Temperature of rep. sample or temp blank when opened: 1.2 *Degrees Celsius*

3. If Item #2 temperatures is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) _____

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. *Cooling process:* Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (initial) ES

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES..NO..NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial) ES

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial) ES

I certify that I attached a label with the unique LIMS number to each container (initial) ES

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...# ES

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 12/15/15

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2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

500-131886

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

8/25/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	COC No: 500-91138.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin	Job #: 500-131886-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/1/2017		
City: Nashville	TAT Requested (days):		
State, Zip: TN, 37204			
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:		
Email:	WO #:		
Project Name: Multiple Sites Along STH 50 - 278962	Project #: 50010540		
Site:	SSOW#:		

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	WI_GRO/WIGRO_P_FM PVOC+NAP	Moisture/ Percent Moisture/Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GP-59 (4-6) (500-131886-1)	7/28/17	07:45 Central		Solid			X			1	Plus GRO
GP-59 (14-16) (500-131886-2)	7/28/17	07:50 Central		Solid				X		1	
GP-60 (0-2) (500-131886-3)	7/28/17	08:15 Central		Solid				X		1	
GP-60 (10-12) (500-131886-4)	7/28/17	08:20 Central		Solid				X		1	
GP-61 (0-2) (500-131886-5)	7/28/17	09:10 Central		Solid				X		1	
GP-61 (6-8) (500-131886-6)	7/28/17	09:15 Central		Solid				X		1	
GP-62 (0-2) (500-131886-7)	7/28/17	09:35 Central		Solid				X		1	
GP-62 (4-6) (500-131886-8)	7/28/17	09:40 Central		Solid				X		1	
GP-63 (2-4) (500-131886-9)	7/28/17	10:20 Central		Solid				X	X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	Time:		Method of Shipment:	
Relinquished by:	Date/Time: 07/31/17 @ 1600	Company TA	Received by:	Date/Time: 8-1-17 10:30	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company	

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	Carrier Tracking No(s):	COC No: 500-91138.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-131886-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 8/1/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: Multiple Sites Along STH 50 - 278962	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Loc: 500
131886

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2O3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - pH 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	WI_GRO/WIGRO_P_FM (MOD) PVOC+NAP+GRO	WI_GRO/WIGRO_P_FM PVOC+NAP	Moisture/ Percent Moisture/Solids	Total Number of containers	Special Instructions/Note:
			Preservation Code:								
GP-63 (14-16) (500-131886-10)	7/28/17	10:40 Central		Solid				X	X	2	
GP-64 (2-4) (500-131886-11)	7/28/17	11:10 Central		Solid				X	X	2	
GP-64 (10-11) (500-131886-12)	7/28/17	11:20 Central		Solid				X	X	2	
GP-65 (2-4) (500-131886-13)	7/28/17	11:55 Central		Solid				X	X	2	
GP-65 (14-16) (500-131886-14)	7/28/17	12:05 Central		Solid				X	X	2	
Trip Blank (500-131886-15)	7/28/17	Central		Solid				X		1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 07/31/17 @ 1600	Company TA	Received by:	Date/Time: 8-1-17 10:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 1.2

8/25/2017

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131886-1

Login Number: 131886
List Number: 1
Creator: Sanchez, Ariel M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	4.2
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131886-1

Login Number: 131886
List Number: 2
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 08/01/17 12:15 PM

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.	True	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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.	N/A	
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	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-131886-1

Login Number: 131886
List Number: 3
Creator: Stewart, Eric S

List Source: TestAmerica Nashville
List Creation: 08/01/17 12:19 PM

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.	True	
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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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.	N/A	
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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

TestAmerica Job ID: 500-133872-1
Client Project/Site: STH 50 (75th St.) Kenosha - 286492

For:
TRC Environmental Corporation.
150 N. Patrick Blvd.
Suite 180
Brookfield, Wisconsin 53045

Attn: Mr. Tyler Stapel

Sandie Fredrick

Authorized for release by:
9/18/2017 12:39:33 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandie.fredrick@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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.

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Job ID: 500-133872-1

Laboratory: TestAmerica Chicago

Narrative

Job Narrative
500-133872-1

Comments
No additional comments.

Receipt
The samples were received on 9/12/2017 10:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.5º C.

Receipt Exceptions
A Trip Blank was listed on the Chain of Custody (COC); however, no sample was received.

GC VOA
Method(s) WI-GRO: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 490-459546 and analytical batch 490-460156.

No additional analytical or quality issues were noted, other than those described above or 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
Method(s) WI GRO: added methanol to provide 1:1 ratio. GP-66 (10-12) (500-133872-2), GP-67 (12-14) (500-133872-4), GP-69 (2-3) (500-133872-7), GP-70 (4-6) (500-133872-9) and GP-70 (10-10.5) (500-133872-10)

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

Detection Summary

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Client Sample ID: GP-66 (2-4) — Lab Sample ID: 500-133872-1

No Detections.

Client Sample ID: GP-66 (10-12) — Lab Sample ID: 500-133872-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl tert-butyl ether	44		30	14	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-67 (2-3) — Lab Sample ID: 500-133872-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	140		98	39	ug/Kg	1	☼	WDNR	Total/NA

Client Sample ID: GP-67 (12-14) — Lab Sample ID: 500-133872-4

No Detections.

Client Sample ID: GP-68 (2-4) — Lab Sample ID: 500-133872-5

No Detections.

Client Sample ID: GP-68 (8-9) — Lab Sample ID: 500-133872-6

No Detections.

Client Sample ID: GP-69 (2-3) — Lab Sample ID: 500-133872-7

No Detections.

Client Sample ID: GP-69 (10.5-11.5) — Lab Sample ID: 500-133872-8

No Detections.

Client Sample ID: GP-70 (4-6) — Lab Sample ID: 500-133872-9

No Detections.

Client Sample ID: GP-70 (10-10.5) — Lab Sample ID: 500-133872-10

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Method	Method Description	Protocol	Laboratory
WDNR	Wisconsin - Gasoline Range Organics (GC)	WI-GRO	TAL NSH
Moisture	Percent Moisture	EPA	TAL NSH

Protocol References:

EPA = US Environmental Protection Agency

WI-GRO = "Modified GRO: Method For Determining Gasoline Range Organics", Wisconsin DNR, Publ-SW-140, September, 1995.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Sample Summary

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-133872-1	GP-66 (2-4)	Solid	09/11/17 08:45	09/12/17 10:15
500-133872-2	GP-66 (10-12)	Solid	09/11/17 08:55	09/12/17 10:15
500-133872-3	GP-67 (2-3)	Solid	09/11/17 09:20	09/12/17 10:15
500-133872-4	GP-67 (12-14)	Solid	09/11/17 09:42	09/12/17 10:15
500-133872-5	GP-68 (2-4)	Solid	09/11/17 10:10	09/12/17 10:15
500-133872-6	GP-68 (8-9)	Solid	09/11/17 10:20	09/12/17 10:15
500-133872-7	GP-69 (2-3)	Solid	09/11/17 10:50	09/12/17 10:15
500-133872-8	GP-69 (10.5-11.5)	Solid	09/11/17 10:55	09/12/17 10:15
500-133872-9	GP-70 (4-6)	Solid	09/11/17 11:25	09/12/17 10:15
500-133872-10	GP-70 (10-10.5)	Solid	09/11/17 11:35	09/12/17 10:15

Client Sample ID: GP-66 (2-4)

Date Collected: 09/11/17 08:45
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-1
Matrix: Solid
Percent Solids: 83.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
Ethylbenzene	<19		25	19	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
Methyl tert-butyl ether	<12		25	12	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
Naphthalene	<120		250	120	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
Toluene	<17		25	17	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1
Xylenes, Total	<30		76	30	ug/Kg	☼	09/13/17 12:26	09/15/17 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*	*09/13/17 12:26*	*09/15/17 12:03*	*1*

Client Sample ID: GP-66 (10-12)

Date Collected: 09/11/17 08:55
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-2
Matrix: Solid
Percent Solids: 82.3

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		30	22	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
Ethylbenzene	<23		30	23	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
Methyl tert-butyl ether	**44**		30	14	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
Naphthalene	<140		300	140	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
Toluene	<21		30	21	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
1,2,4-Trimethylbenzene	<18		30	18	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
1,3,5-Trimethylbenzene	<18		30	18	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1
Xylenes, Total	<36		91	36	ug/Kg	☼	09/13/17 12:26	09/15/17 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*100*		*80 - 120*	*09/13/17 12:26*	*09/15/17 12:29*	*1*

Client Sample ID: GP-67 (2-3)

Date Collected: 09/11/17 09:20
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-3
Matrix: Solid
Percent Solids: 86.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<24		33	24	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
Ethylbenzene	<25		33	25	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
Methyl tert-butyl ether	<16		33	16	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
Naphthalene	<160		330	160	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
Toluene	<22		33	22	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
1,2,4-Trimethylbenzene	<20		33	20	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
1,3,5-Trimethylbenzene	<20		33	20	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1
Xylenes, Total	**140**		98	39	ug/Kg	☼	09/13/17 12:26	09/15/17 12:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*80 - 120*	*09/13/17 12:26*	*09/15/17 12:56*	*1*

Client Sample ID: GP-67 (12-14)

Lab Sample ID: 500-133872-4
Date Collected: 09/11/17 09:42
Matrix: Solid
Date Received: 09/12/17 10:15
Percent Solids: 85.7

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
Ethylbenzene	<22		29	22	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
Naphthalene	<140		290	140	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
Toluene	<20		29	20	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1
Xylenes, Total	<35		87	35	ug/Kg	☼	09/13/17 12:26	09/15/17 13:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*	*09/13/17 12:26*	*09/15/17 13:23*	*1*

Client Sample ID: GP-68 (2-4)

Lab Sample ID: 500-133872-5
Date Collected: 09/11/17 10:10
Matrix: Solid
Date Received: 09/12/17 10:15
Percent Solids: 85.4

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<21		29	21	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
Ethylbenzene	<22		29	22	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
Methyl tert-butyl ether	<14		29	14	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
Naphthalene	<140		290	140	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
Toluene	<20		29	20	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
1,2,4-Trimethylbenzene	<17		29	17	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
1,3,5-Trimethylbenzene	<17		29	17	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1
Xylenes, Total	<35		86	35	ug/Kg	☼	09/13/17 12:26	09/15/17 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*96*		*80 - 120*	*09/13/17 12:26*	*09/15/17 13:50*	*1*

Client Sample ID: GP-68 (8-9)

Lab Sample ID: 500-133872-6
Date Collected: 09/11/17 10:20
Matrix: Solid
Date Received: 09/12/17 10:15
Percent Solids: 84.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		27	19	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
Ethylbenzene	<20		27	20	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
Naphthalene	<130		270	130	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
Toluene	<18		27	18	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1
Xylenes, Total	<32		80	32	ug/Kg	☼	09/13/17 12:26	09/15/17 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*98*		*80 - 120*	*09/13/17 12:26*	*09/15/17 14:18*	*1*

Client Sample ID: GP-69 (2-3)

Date Collected: 09/11/17 10:50
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-7

Matrix: Solid
Percent Solids: 85.6

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<20		28	20	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
Ethylbenzene	<22		28	22	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
Methyl tert-butyl ether	<14		28	14	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
Naphthalene	<140		280	140	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
Toluene	<19		28	19	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
1,2,4-Trimethylbenzene	<17		28	17	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
1,3,5-Trimethylbenzene	<17		28	17	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1
Xylenes, Total	<34		85	34	ug/Kg	☼	09/13/17 12:26	09/15/17 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*	*09/13/17 12:26*	*09/15/17 14:44*	*1*

Client Sample ID: GP-69 (10.5-11.5)

Date Collected: 09/11/17 10:55
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-8

Matrix: Solid
Percent Solids: 85.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<19		27	19	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
Ethylbenzene	<20		27	20	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
Methyl tert-butyl ether	<13		27	13	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
Naphthalene	<130		270	130	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
Toluene	<18		27	18	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
1,2,4-Trimethylbenzene	<16		27	16	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
1,3,5-Trimethylbenzene	<16		27	16	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1
Xylenes, Total	<32		80	32	ug/Kg	☼	09/13/17 12:26	09/15/17 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*99*		*80 - 120*	*09/13/17 12:26*	*09/15/17 15:11*	*1*

Client Sample ID: GP-70 (4-6)

Date Collected: 09/11/17 11:25
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-9

Matrix: Solid
Percent Solids: 83.0

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		31	22	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
Ethylbenzene	<23		31	23	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
Naphthalene	<150		310	150	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
Toluene	<21		31	21	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
1,2,4-Trimethylbenzene	<18		31	18	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
1,3,5-Trimethylbenzene	<18		31	18	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1
Xylenes, Total	<37		92	37	ug/Kg	☼	09/13/17 12:26	09/15/17 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*101*		*80 - 120*	*09/13/17 12:26*	*09/15/17 15:38*	*1*

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Client Sample ID: GP-70 (10-10.5)
Date Collected: 09/11/17 11:35
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-10
Matrix: Solid
Percent Solids: 80.2

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<22		31	22	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
Ethylbenzene	<23		31	23	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
Methyl tert-butyl ether	<15		31	15	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
Naphthalene	<150		310	150	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
Toluene	<21		31	21	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
1,2,4-Trimethylbenzene	<18		31	18	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
1,3,5-Trimethylbenzene	<18		31	18	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1
Xylenes, Total	<37		92	37	ug/Kg	☼	09/13/17 12:26	09/15/17 16:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*102*		*80 - 120*	*09/13/17 12:26*	*09/15/17 16:05*	*1*

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	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
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)

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

GC VOA

Prep Batch: 459546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-133872-1	GP-66 (2-4)	Total/NA	Solid	WI GRO	
500-133872-2	GP-66 (10-12)	Total/NA	Solid	WI GRO	
500-133872-3	GP-67 (2-3)	Total/NA	Solid	WI GRO	
500-133872-4	GP-67 (12-14)	Total/NA	Solid	WI GRO	
500-133872-5	GP-68 (2-4)	Total/NA	Solid	WI GRO	
500-133872-6	GP-68 (8-9)	Total/NA	Solid	WI GRO	
500-133872-7	GP-69 (2-3)	Total/NA	Solid	WI GRO	
500-133872-8	GP-69 (10.5-11.5)	Total/NA	Solid	WI GRO	
500-133872-9	GP-70 (4-6)	Total/NA	Solid	WI GRO	
500-133872-10	GP-70 (10-10.5)	Total/NA	Solid	WI GRO	
MB 490-459546/1-A	Method Blank	Total/NA	Solid	WI GRO	
LCS 490-459546/2-A	Lab Control Sample	Total/NA	Solid	WI GRO	
LCSD 490-459546/3-A	Lab Control Sample Dup	Total/NA	Solid	WI GRO	

Analysis Batch: 460156

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-133872-1	GP-66 (2-4)	Total/NA	Solid	WDNR	459546
500-133872-2	GP-66 (10-12)	Total/NA	Solid	WDNR	459546
500-133872-3	GP-67 (2-3)	Total/NA	Solid	WDNR	459546
500-133872-4	GP-67 (12-14)	Total/NA	Solid	WDNR	459546
500-133872-5	GP-68 (2-4)	Total/NA	Solid	WDNR	459546
500-133872-6	GP-68 (8-9)	Total/NA	Solid	WDNR	459546
500-133872-7	GP-69 (2-3)	Total/NA	Solid	WDNR	459546
500-133872-8	GP-69 (10.5-11.5)	Total/NA	Solid	WDNR	459546
500-133872-9	GP-70 (4-6)	Total/NA	Solid	WDNR	459546
500-133872-10	GP-70 (10-10.5)	Total/NA	Solid	WDNR	459546
MB 490-459546/1-A	Method Blank	Total/NA	Solid	WDNR	459546
LCS 490-459546/2-A	Lab Control Sample	Total/NA	Solid	WDNR	459546
LCSD 490-459546/3-A	Lab Control Sample Dup	Total/NA	Solid	WDNR	459546

General Chemistry

Analysis Batch: 459654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-133872-1	GP-66 (2-4)	Total/NA	Solid	Moisture	
500-133872-2	GP-66 (10-12)	Total/NA	Solid	Moisture	
500-133872-3	GP-67 (2-3)	Total/NA	Solid	Moisture	
500-133872-4	GP-67 (12-14)	Total/NA	Solid	Moisture	
500-133872-5	GP-68 (2-4)	Total/NA	Solid	Moisture	
500-133872-6	GP-68 (8-9)	Total/NA	Solid	Moisture	
500-133872-7	GP-69 (2-3)	Total/NA	Solid	Moisture	
500-133872-8	GP-69 (10.5-11.5)	Total/NA	Solid	Moisture	
500-133872-9	GP-70 (4-6)	Total/NA	Solid	Moisture	
500-133872-10	GP-70 (10-10.5)	Total/NA	Solid	Moisture	

Surrogate Summary

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)								
Lab Sample ID	Client Sample ID	TFT (80-120)								
500-133872-1	GP-66 (2-4)	97								
500-133872-2	GP-66 (10-12)	100								
500-133872-3	GP-67 (2-3)	99								
500-133872-4	GP-67 (12-14)	96								
500-133872-5	GP-68 (2-4)	96								
500-133872-6	GP-68 (8-9)	98								
500-133872-7	GP-69 (2-3)	97								
500-133872-8	GP-69 (10.5-11.5)	99								
500-133872-9	GP-70 (4-6)	101								
500-133872-10	GP-70 (10-10.5)	102								
LCS 490-459546/2-A	Lab Control Sample	99								
LCSD 490-459546/3-A	Lab Control Sample Dup	98								
MB 490-459546/1-A	Method Blank	97								

Surrogate Legend

TFT = a,a,a-Trifluorotoluene

Method: WDNR - Wisconsin - Gasoline Range Organics (GC)

Lab Sample ID: MB 490-459546/1-A
Matrix: Solid
Analysis Batch: 460156

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459546

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<18		25	18	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
Ethylbenzene	<19		25	19	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
Methyl tert-butyl ether	<12		25	12	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
Naphthalene	<120		250	120	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
Toluene	<17		25	17	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
1,2,4-Trimethylbenzene	<15		25	15	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
1,3,5-Trimethylbenzene	<15		25	15	ug/Kg		09/13/17 09:36	09/15/17 11:36	1
Xylenes, Total	<30		75	30	ug/Kg		09/13/17 09:36	09/15/17 11:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
a,a,a-Trifluorotoluene	*97*		*80 - 120*	*09/13/17 09:36*	*09/15/17 11:36*	*1*

Lab Sample ID: LCS 490-459546/2-A
Matrix: Solid
Analysis Batch: 460156

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459546

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			5000	4710		ug/Kg		94	76 - 120		
Ethylbenzene			5000	4750		ug/Kg		95	77 - 120		
Methyl tert-butyl ether			5000	5090		ug/Kg		102	73 - 120		
Naphthalene			5000	5040		ug/Kg		101	74 - 127		
Toluene			5000	4720		ug/Kg		94	79 - 120		
1,2,4-Trimethylbenzene			5000	4710		ug/Kg		94	60 - 140		
1,3,5-Trimethylbenzene			5000	4490		ug/Kg		90	74 - 133		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*99*		*80 - 120*

Lab Sample ID: LCSD 490-459546/3-A
Matrix: Solid
Analysis Batch: 460156

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 459546

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			5000	5170		ug/Kg		103	76 - 120	9	27
Ethylbenzene			5000	4910		ug/Kg		98	77 - 120	3	49
Methyl tert-butyl ether			5000	5700		ug/Kg		114	73 - 120	11	31
Naphthalene			5000	5000		ug/Kg		100	74 - 127	1	50
Toluene			5000	5050		ug/Kg		101	79 - 120	7	37
1,2,4-Trimethylbenzene			5000	4720		ug/Kg		94	60 - 140	0	50
1,3,5-Trimethylbenzene			5000	4600		ug/Kg		92	74 - 133	2	42

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
a,a,a-Trifluorotoluene	*98*		*80 - 120*

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Client Sample ID: GP-66 (2-4)
Date Collected: 09/11/17 08:45
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-66 (2-4)
Date Collected: 09/11/17 08:45
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-1
Matrix: Solid
Percent Solids: 83.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 12:03	AK1	TAL NSH

Client Sample ID: GP-66 (10-12)
Date Collected: 09/11/17 08:55
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-66 (10-12)
Date Collected: 09/11/17 08:55
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-2
Matrix: Solid
Percent Solids: 82.3

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 12:29	AK1	TAL NSH

Client Sample ID: GP-67 (2-3)
Date Collected: 09/11/17 09:20
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-67 (2-3)
Date Collected: 09/11/17 09:20
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-3
Matrix: Solid
Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 12:56	AK1	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Client Sample ID: GP-67 (12-14)
Date Collected: 09/11/17 09:42
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-67 (12-14)
Date Collected: 09/11/17 09:42
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-4
Matrix: Solid
Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 13:23	AK1	TAL NSH

Client Sample ID: GP-68 (2-4)
Date Collected: 09/11/17 10:10
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-68 (2-4)
Date Collected: 09/11/17 10:10
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-5
Matrix: Solid
Percent Solids: 85.4

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 13:50	AK1	TAL NSH

Client Sample ID: GP-68 (8-9)
Date Collected: 09/11/17 10:20
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-68 (8-9)
Date Collected: 09/11/17 10:20
Date Received: 09/12/17 10:15

Lab Sample ID: 500-133872-6
Matrix: Solid
Percent Solids: 84.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 14:18	AK1	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Client Sample ID: GP-69 (2-3)
Lab Sample ID: 500-133872-7
Date Collected: 09/11/17 10:50
Matrix: Solid
Date Received: 09/12/17 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-69 (2-3)
Lab Sample ID: 500-133872-7
Date Collected: 09/11/17 10:50
Matrix: Solid
Date Received: 09/12/17 10:15
Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 14:44	AK1	TAL NSH

Client Sample ID: GP-69 (10.5-11.5)
Lab Sample ID: 500-133872-8
Date Collected: 09/11/17 10:55
Matrix: Solid
Date Received: 09/12/17 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-69 (10.5-11.5)
Lab Sample ID: 500-133872-8
Date Collected: 09/11/17 10:55
Matrix: Solid
Date Received: 09/12/17 10:15
Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 15:11	AK1	TAL NSH

Client Sample ID: GP-70 (4-6)
Lab Sample ID: 500-133872-9
Date Collected: 09/11/17 11:25
Matrix: Solid
Date Received: 09/12/17 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-70 (4-6)
Lab Sample ID: 500-133872-9
Date Collected: 09/11/17 11:25
Matrix: Solid
Date Received: 09/12/17 10:15
Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 15:38	AK1	TAL NSH

Lab Chronicle

Client: TRC Environmental Corporation.
Project/Site: STH 50 (75th St.) Kenosha - 286492

TestAmerica Job ID: 500-133872-1

Client Sample ID: GP-70 (10-10.5)

Lab Sample ID: 500-133872-10

Date Collected: 09/11/17 11:35

Matrix: Solid

Date Received: 09/12/17 10:15

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1	459654	09/13/17 12:34	BAA	TAL NSH

Client Sample ID: GP-70 (10-10.5)

Lab Sample ID: 500-133872-10

Date Collected: 09/11/17 11:35

Matrix: Solid

Date Received: 09/12/17 10:15

Percent Solids: 80.2

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	WI GRO			459546	09/13/17 12:26	JLP	TAL NSH
Total/NA	Analysis	WDNR		1	460156	09/15/17 16:05	AK1	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Accreditation/Certification Summary

Client: TRC Environmental Corporation. TestAmerica Job ID: 500-133872-1
Project/Site: STH 50 (75th St.) Kenosha - 286492

Laboratory: TestAmerica Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	999580010	08-31-18

Laboratory: TestAmerica Nashville

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Wisconsin	State Program	5	998020430	08-31-17 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)
Report To
Contact: Tyler Stupel
Company: TRC
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)
Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference# 500-133872 COC

Chain of Custody Record

Lab Job #: 500-133872
Chain of Custody Number: 001
Page 1 of 2
Temperature °C of Cooler: 4.5

Client: WisDOT	Client Project #: 286492	Preservative	
Project Name: STH 50 (75th St) Kenosha		Parameter	
Project Location/State: Kenosha, WI	Lab Project #		
Sampler: R. Hartwich	Lab PM		

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	PAHs + Naphthalene								Comments
1		GP-66 (2-4)	9/11/17	0845	2	SO	X								
2		GP-66 (10-12)		0855	2		X								
3		GP-67 (2-3)		0920	2		X								
4		GP-67 (12-14)		0942	2		X								
5		GP-68 (2-4)		1010	2		X								
6		GP-68 (8-9)		1020	2		X								
7		GP-69 (2-3)		1050	2		X								
8		GP-69 (10.5-11.5)		1055	2		X								
9		GP-70 (4-6)		1125	2		X								
10		GP-70 (10-10.5)		1135	2		X								

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
R. Hartwich	TRC	9/11/17	1500		TA	09/12/17	1015
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier ☐
Shipped ☑
Hand Delivered ☐

Matrix Key
WW – Wastewater
W – Water
S – Soil
SL – Sludge
MS – Miscellaneous
OL – Oil
A – Air
SE – Sediment
SO – Soil
L – Leachate
WI – Wipe
DW – Drinking Water
O – Other

Client Comments

Lab Comments:

TAL-4124-600 (1209)

9/18/2017

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

2417 Bond Street, University Park, IL 60484
Phone: 708.534.5200 Fax: 708.534.5211

(optional)

Report To
Contact: Tyler Stapel
Company: TRC
Address:
Address:
Phone:
Fax:
E-Mail:

(optional)

Bill To
Contact:
Company:
Address:
Address:
Phone:
Fax:
PO#/Reference#

Chain of Custody Record

Lab Job #: 500-133872
Chain of Custody Number: 002
Page 2 of 2
Temperature °C of Cooler:

Client	Client Project #	Preservative										
WisDOT	286492											
Project Name		Parameter										
STH (50) - Kenosha												
Project Location/State	Lab Project #											
Kenosha, WI												
Sampler	Lab PM											
R. Hartwich												

Preservative Key
1. HCL, Cool to 4°
2. H2SO4, Cool to 4°
3. HNO3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. NaHSO4
7. Cool to 4°
8. None
9. Other

Lab ID	MS/MSD	Sample ID	Sampling Date	Sampling Time	# of Containers	Matrix	Rvocs + Nap's								Comments
		TRIP-001	9/11/17	Lic Prepared			X								
							RH								
							9/11/17								

Turnaround Time Required (Business Days)
___ 1 Day ___ 2 Days ___ 5 Days ___ 7 Days X 10 Days ___ 15 Days _____ Other
Requested Due Date _____

Sample Disposal
☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months (A fee may be assessed if samples are retained longer than 1 month)

Relinquished By	Company	Date	Time	Received By	Company	Date	Time
R. Hartwich	TRC	9/11/17	1500				
Relinquished By	Company	Date	Time	Received By	Company	Date	Time
Relinquished By	Company	Date	Time	Received By	Company	Date	Time

Lab Courier
Shipped
Hand Delivered

Matrix Key

WW – Wastewater	SE – Sediment
W – Water	SO – Soil
S – Soil	L – Leachate
SL – Sludge	WI – Wipe
MS – Miscellaneous	DW – Drinking Water
OL – Oil	O – Other
A – Air	

Client Comments

Lab Comments:

TAL-4124-500 (1209)

9/18/2017

ORIGIN ID:JOTA (708) 534-5200
ROSS HARTWICK
TRC ENVIRONMENTAL CORPORATION.
150 N. PATRICK BLVD.
SUITE 180
BROOKFIELD, WI 53045
UNITED STATES US

SHIP DATE: 28FEB17
ACTWGT: 50.00 LB MAN
CAD: 33284/CAFE3011

TO SAMPLE LOGIN
TESTAMERICA LABS
2417 BOND ST

UNIVERSITY PARK IL 60466

500-133872 Waybill

(708) 534-5200
REF: S500-51666

RMA:

FedEx Express

RETURNS MON-FRI

TRK# 6514 8432 0251

FedEx.
TRK# 0221 6514 8432 0251

TUE - 12 SEP 10:30A
PRIORITY OVERNIGHT

79 JOTA

60466
IL-US
ORD

FID 632866 11SEP17 ZMLA 646C1/FF19/0C8A

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

500-133872 Chain of Custody

Cooler Received/Opened On_09-13-2017_@ 09:40

Time Samples Removed From Cooler 1146 Time Samples Placed In Storage 1157 (2 Hour Window)

1. Tracking # 1497 (last 4 digits, FedEx) Courier: _FedEx_

IR Gun ID_31470368_ pH Strip Lot NA Chlorine Strip Lot NA

2. Temperature of rep. sample or temp blank when opened: 1.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO (NA)

4. Were custody seals on outside of cooler? (YES)...NO...NA

If yes, how many and where: 1 (front)

5. Were the seals intact, signed, and dated correctly? (YES)..NO...NA

6. Were custody papers inside cooler? (YES)...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) KD

7. Were custody seals on containers: YES (NO) and Intact YES...NO...(NA)

Were these signed and dated correctly? YES...NO...(NA)

8. Packing mat'l used? (Bubblewrap) Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: (Ice) Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? (YES)..NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? (YES)...NO...NA

12. Did all container labels and tags agree with custody papers? (YES)...NO...NA

13a. Were VOA vials received? (YES)..NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...(NA)

Larger than this.

14. Was there a Trip Blank in this cooler? YES..(NO)..NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) HKG

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...(NA)

b. Did the bottle labels indicate that the correct preservatives were used (YES)...NO...NA

16. Was residual chlorine present? YES...NO...(NA)

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) HKG

17. Were custody papers properly filled out (ink, signed, etc)? (YES)..NO...NA

18. Did you sign the custody papers in the appropriate place? (YES)..NO...NA

19. Were correct containers used for the analysis requested? (YES)..NO...NA

20. Was sufficient amount of sample sent in each container? (YES)...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) HKG

I certify that I attached a label with the unique LIMS number to each container (intial) HKG

21. Were there Non-Conformance issues at login? YES...(NO) Was a NCM generated? YES..(NO)..#_____

BIS = Broken in shipment

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

Loc: 500
133872

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/18/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J		COC No: 500-93047.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-133872-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/13/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: STH 50 (75th St.) Kenosha - 286492	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GP-66 (2-4) (500-133872-1)	9/11/17	08:45 Central		Solid			X	X	2	
GP-66 (10-12) (500-133872-2)	9/11/17	08:55 Central		Solid			X	X	2	
GP-67 (2-3) (500-133872-3)	9/11/17	09:20 Central		Solid			X	X	2	
GP-67 (12-14) (500-133872-4)	9/11/17	09:42 Central		Solid			X	X	2	
GP-68 (2-4) (500-133872-5)	9/11/17	10:10 Central		Solid			X	X	2	
GP-68 (8-9) (500-133872-6)	9/11/17	10:20 Central		Solid			X	X	2	
GP-69 (2-3) (500-133872-7)	9/11/17	10:50 Central		Solid			X	X	2	
GP-69 (10.5-11.5) (500-133872-8)	9/11/17	10:55 Central		Solid			X	X	2	
GP-70 (4-6) (500-133872-9)	9/11/17	11:25 Central		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1	[signature]	09/12/17 @ 1600	TA	[signature] 1.9	9/13/17 0940	TA
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

TestAmerica Chicago
2417 Bond Street
University Park, IL 60484
Phone (708) 534-5200 Fax (708) 534-5211

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

9/18/2017

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Fredrick, Sandie J	Carrier Tracking No(s):	COC No: 500-93047.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: sandie.fredrick@testamericainc.com	State of Origin: Wisconsin	Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc		Accreditations Required (See note): State Program - Wisconsin		Job #: 500-133872-1
Address: 2960 Foster Creighton Drive, ,	Due Date Requested: 9/13/2017			
City: Nashville	TAT Requested (days):			
State, Zip: TN, 37204				
Phone: 615-726-0177(Tel) 615-726-3404(Fax)	PO #:			
Email:	WO #:			
Project Name: STH 50 (75th St.) Kenosha - 286492	Project #: 50010540			
Site:	SSOW#:			

Analysis Requested

Loc: 500
133872

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Moisture/ Percent Moisture/Solids	WI_GRO/WIGRO_P_FM PVOC+NAP	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
GP-70 (10-10.5) (500-133872-10)	9/11/17	11:35 Central		Solid			X	X	2	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. I

Possible Hazard Identification *Unconfirmed*	***Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*** ☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For _____ Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 09/12/17 @ 1600	Company TA	Received by: 1.9	Date/Time: 9/13/17 0940	Company TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-133872-1

Login Number: 133872
List Number: 1
Creator: Kelsey, Shawn M

List Source: TestAmerica Chicago

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
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	4.5c
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	TB not received.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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	

Login Sample Receipt Checklist

Client: TRC Environmental Corporation.

Job Number: 500-133872-1

Login Number: 133872
List Number: 2
Creator: Gundi, Hozar K

List Source: TestAmerica Nashville
List Creation: 09/13/17 11:43 AM

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.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
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	

Appendix E
Cumulative Hazard Index and Cancer Risk Calculations

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-01 (6-8)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.001	3.1E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.17		0.001	3.1E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	9.4			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-02 (6-8)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0008	2.7E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.15		0.0008	2.7E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	12.			

BRRTS # :
GP-02 (6-8)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0008	2.7E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-03 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	13.			

BRRTS # :
GP-03 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-03 (6-8)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0001	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.02		0.0001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

BRRTS # :
GP-03 (6-8)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0001	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-04 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	15.			

BRRTS # :
GP-04 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-04 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	12.			

BRRTS # :
GP-04 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-05 (2-4)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			
Test1Chem(DRO)	Wis. DRO						9.9			

BRRTS # :
GP-05 (2-4)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-05 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

BRRTS # :
GP-05 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-08 (2-4)

# of Soil-Concentration Entries: 0

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-08 (6-8)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-09 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-09 (6-8)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-10 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	12.			

BRRTS # :
GP-10 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-10 (12-14)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0008	2.7E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.15		0.0008	2.7E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

BRRTS # :
GP-10 (12-14)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0008	2.7E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-11 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	41.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-11 (14-15)

# of Soil-Concentration Entries: 4

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.002	5.4E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.038		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.064		0.0002	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.3		0.0017	5.4E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

BRRTS # :
GP-11 (14-15)

# of Soil-Concentration Entries: 4

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.002	5.4E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-12 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	42.			

BRRTS # :
GP-12 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-12 (14-16)

# of Soil-Concentration Entries: 5

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0014	3.8E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylenes	1330-20-7	818.	-	260.	Csat		0.035		0.	
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.03		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.036		0.0001	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.21		0.0012	3.8E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

BRRTS # :
GP-12 (14-16)

# of Soil-Concentration Entries: 5

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0014	3.8E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-13 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	6.4			

BRRTS # :
GP-13 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-13 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	3.4			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-15 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	15.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-15 (6-8)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-17 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-18 (2-4)

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.2874	1.5E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	10.	E	0.2865	1.5E-05
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	54.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.23			
Chromium, Total	7440-47-3	-	-			44.	20.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.014		0.0009	
Lead and Compounds	7439-92-1	400.	-	400.		52.	14.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-19 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-20 (2-4)

# of Soil-Concentration Entries: 11

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0219	1.9E-09

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	6.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	56.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.28			
Chromium, Total	7440-47-3	-	-			44.	20.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	23.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.02		0.0013	
Lead and Compounds	7439-92-1	400.	-	400.		52.	41.			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	32.		0.0206	1.9E-09
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	70.			
Test1Chem(DRO)	Wis. DRO						6.6			
Test2Chem(GRO)	Wis. GRO						0.91			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-20 (10-12)

# of Soil-Concentration Entries: 7

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.2723	1.4E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	9.4	E	0.2693	1.4E-05
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	29.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.18			
Chromium, Total	7440-47-3	-	-			44.	16.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.015		0.001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	12.			
Selenium	7782-49-2	391.	-	391.	nc		0.78		0.002	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-23 (2-4)

# of Soil-Concentration Entries: 12

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0017	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylenes	1330-20-7	818.	-	260.	Csat		0.017		0.	
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	5.9			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	70.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.23			
Chromium, Total	7440-47-3	-	-			44.	21.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	23.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.027		0.0017	
Lead and Compounds	7439-92-1	400.	-	400.		52.	25.			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	27.			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	67.			
Test1Chem(DRO)	Wis. DRO						3.1			
Test2Chem(GRO)	Wis. GRO						1.5			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-24 (2-4)

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0004	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	2.9			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	31.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.15			
Chromium, Total	7440-47-3	-	-			44.	12.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0069		0.0004	
Lead and Compounds	7439-92-1	400.	-	400.		52.	5.1			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-24 (6-8)

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.001	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	6.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	40.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.19			
Chromium, Total	7440-47-3	-	-			44.	19.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.015		0.001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-25 (2-4)

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0015	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	4.2			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	33.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.29			
Chromium, Total	7440-47-3	-	-			44.	12.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.023		0.0015	
Lead and Compounds	7439-92-1	400.	-	400.		52.	36.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-26 (2-4)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0001	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.031		0.0001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	16.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-26 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	9.9			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-27 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	7.6			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-31 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Test1Chem(DRO)	Wis. DRO						3.5			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-31 (6-8)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-32 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-32 (6-8)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-33 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-33 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	9.7			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-34 (2-4)

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0003	2.4E-09

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/15/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca		0.019		0.	2.4E-09
Toluene	108-88-3	5,240.	-	818.	Csat		0.043		0.	
Xylenes	1330-20-7	818.	-	260.	Csat		0.076		0.0001	
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.043		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.032		0.0001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	25.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-34 (10-11)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-35 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	16.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
PG-35 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-39 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	19.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-40 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	21.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-40 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	8.6			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-41 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.14	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	56.		0.14	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-43 (2-4)

# of Soil-Concentration Entries: 9

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
1	0.285	1.3E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	9.	E	0.2579	1.3E-05
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	73.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.13			
Chromium, Total	7440-47-3	-	-			44.	24.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	28.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.041		0.0026	
Lead and Compounds	7439-92-1	400.	-	400.		52.	18.			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	38.		0.0245	2.2E-09
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	79.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-43 (14-16)

# of Soil-Concentration Entries: 9

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0024	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	4.3			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	43.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.18			
Chromium, Total	7440-47-3	-	-			44.	16.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	19.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.038		0.0024	
Lead and Compounds	7439-92-1	400.	-	400.		52.	9.6			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	27.			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	41.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-44 (2-4)

# of Soil-Concentration Entries: 9

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0029	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	6.5			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	48.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.32			
Chromium, Total	7440-47-3	-	-			44.	15.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	22.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.046		0.0029	
Lead and Compounds	7439-92-1	400.	-	400.		52.	18.			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	24.			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	61.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-44 (14-15)

# of Soil-Concentration Entries: 9

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0021	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	5.3			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	42.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.22			
Chromium, Total	7440-47-3	-	-			44.	17.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	20.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.033		0.0021	
Lead and Compounds	7439-92-1	400.	-	400.		52.	9.7			
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	30.			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	46.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-46 (2-4)

# of Soil-Concentration Entries: 7

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.003	1.2E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.064		0.0004	1.2E-08
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	6.4			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	67.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.29			
Chromium, Total	7440-47-3	-	-			44.	21.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.042		0.0027	
Lead and Compounds	7439-92-1	400.	-	400.		52.	22.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-47 (2-4)

# of Soil-Concentration Entries: 11

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.4385	4.5E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.4			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	36.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.85			
Chromium, Total	7440-47-3	-	-			44.	17.			
Copper	7440-50-8	3,130.	-	3,130.	nc	35.	83.		0.0265	
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.075		0.0048	
Lead and Compounds	7439-92-1	400.	-	400.		52.	160.		0.4	
Nickel Soluble Salts	7440-02-0	1,550.	16,900.	1,550.	nc	31.	13.			
Zinc and Compounds	7440-66-6	23,500.	-	23,500.	nc	150.	170.		0.0072	
Aroclor 1260	11096-82-5	-	0.243	0.243	ca		0.11			4.5E-07
Test1Chem(DRO)	Wis. DRO						13.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-47 (6-8)

# of Soil-Concentration Entries: 7

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0044	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	3.1			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	40.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.25			
Chromium, Total	7440-47-3	-	-			44.	22.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.036		0.0023	
Lead and Compounds	7439-92-1	400.	-	400.		52.	13.			
Selenium	7782-49-2	391.	-	391.	nc		0.81		0.0021	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-48 (2-4)

# of Soil-Concentration Entries: 6

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0005	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Arsenic, Inorganic	7440-38-2	34.9	0.677	0.677	ca	8.	6.2			
Barium	7440-39-3	15,300.	-	15,300.	nc	364.	75.			
Cadmium (Diet)	7440-43-9	71.1	2,430.	71.1	nc	1.	0.34			
Chromium, Total	7440-47-3	-	-			44.	21.			
Mercury (elemental)	7439-97-6	15.7	-	3.13	Csat		0.0072		0.0005	
Lead and Compounds	7439-92-1	400.	-	400.		52.	25.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-51 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	20.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-51 (14-16)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	15.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-52 (2-4)

# of Soil-Concentration Entries: 4

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0013	3.8E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.028		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.027		0.0001	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.21		0.0012	3.8E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	12.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-53 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-54 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-55 (2-4)

# of Soil-Concentration Entries: 3

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0157	5.1E-07

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Toluene	108-88-3	5,240.	-	818.	Csat		0.01		0.	
Naphthalene	91-20-3	178.	5.52	5.52	ca		2.8		0.0157	5.1E-07
Lead and Compounds	7439-92-1	400.	-	400.		52.	36.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-55 (6-8)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0002	5.4E-09

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.03		0.0002	5.4E-09
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-56 (0-2)

# of Soil-Concentration Entries: 5

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0007	3.4E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.03		0.0003	1.9E-08
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca		0.02		0.	2.5E-09
Xylenes	1330-20-7	818.	-	260.	Csat		0.025		0.	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.069		0.0004	1.3E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	15.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-56 (4-6)

# of Soil-Concentration Entries: 16

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
3	6.3098	1.3E-05

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 8/23/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		0.7		0.0066	4.4E-07
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca		26.	E	0.0064	3.2E-06
Toluene	108-88-3	5,240.	-	818.	Csat		0.23		0.	
Xylenes	1330-20-7	818.	-	260.	Csat		41.		0.0501	
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		51.		0.1367	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		13.		0.0383	
Naphthalene	91-20-3	178.	5.52	5.52	ca		8.7	E	0.0489	1.6E-06
Lead and Compounds	7439-92-1	400.	-	400.		52.	16.			
Butylbenzene, n-	104-51-8	3,910.	-	108.	Csat		5.4		0.0014	
Butylbenzene, sec-	135-98-8	7,820.	-	145.	Csat		0.91		0.0001	
Cumene	98-82-8	2,530.	-	268.	Csat		2.		0.0008	
Isopropyltoluene, p-	99-87-6	-	-	162.	Csat		0.49			
Propyl benzene	103-65-1	4,490.	-	264.	Csat		8.7		0.0019	
Trichloroethane, 1,1,2-	79-00-5	2.16	1.59	1.59	ca		13.	E	6.0185	8.2E-06
Test1Chem(DRO)	Wis. DRO						140.			
Test2Chem(GRO)	Wis. GRO						1,200.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-57 (0-2)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	12.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-57 (4-6)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	8.9			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-58 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	18.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-58 (6-8)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	11.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-59 (4-6)

# of Soil-Concentration Entries: 11

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
3	0.1537	5.9E-06

Bottom-Line: **NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.**

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106.	1.6	1.6	ca		1.9	E	0.0179	1.2E-06
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca		14.	E	0.0034	1.7E-06
Toluene	108-88-3	5,240.	-	818.	Csat		0.85		0.0002	
Xylenes	1330-20-7	818.	-	260.	Csat		6.9		0.0084	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca		6.2		0.0003	9.7E-08
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		4.4		0.0118	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		7.4		0.0218	
Naphthalene	91-20-3	178.	5.52	5.52	ca		16.	E	0.0899	2.9E-06
Lead and Compounds	7439-92-1	400.	-	400.		52.	19.			
Test1Chem(DRO)	Wis. DRO						39.			
Test2Chem(GRO)	Wis. GRO						810.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-59 (14-16)

# of Soil-Concentration Entries: 5

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0019	5.3E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Toluene	108-88-3	5,240.	-	818.	Csat		0.027		0.	
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.049		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.032		0.0001	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.29		0.0016	5.3E-08
Lead and Compounds	7439-92-1	400.	-	400.		52.	9.4			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-60 (0-2)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	19.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-60 (10-12)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	8.9			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-61 (0-2)

# of Soil-Concentration Entries: 0

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-61 (6-8)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-62 (0-2)

# of Soil-Concentration Entries: 5

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0002	3.2E-09

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Ethylbenzene	100-41-4	4,080.	8.02	8.02	ca		0.026		0.	3.2E-09
Toluene	108-88-3	5,240.	-	818.	Csat		0.043		0.	
Xylenes	1330-20-7	818.	-	260.	Csat		0.064		0.0001	
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.035		0.0001	
Lead and Compounds	7439-92-1	400.	-	400.		52.	22.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-62 (4-6)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Lead and Compounds	7439-92-1	400.	-	400.		52.	10.			

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-63 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	4.5E-10

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca		0.029		0.	4.5E-10

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-63 (14-16)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0015	4.7E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.018		0.	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.26		0.0015	4.7E-08

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-64 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-64 (10-11)

# of Soil-Concentration Entries: 3

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.002	6.0E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.027		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.018		0.0001	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.33		0.0019	6.0E-08

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-65 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-65 (14-16)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0001	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.045		0.0001	

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-63 (2-4)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	4.5E-10

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca		0.029		0.	4.5E-10

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-63 (14-16)

# of Soil-Concentration Entries: 2

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0015	4.7E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.018		0.	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.26		0.0015	4.7E-08

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-64 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-64 (10-11)

# of Soil-Concentration Entries: 3

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.002	6.0E-08

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.027		0.0001	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat		0.018		0.0001	
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.33		0.0019	6.0E-08

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-65 (2-4)

# of Soil-Concentration Entries: 0

Bottom-Line:

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Soil Data Entry Needed!

Date of Entry: 8/22/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data

NR 720 Direct-Contact ***Exceedance*** - ***Hazard*** - ***Risk*** Calculation Summary from Soil Data

BRRTS # :
GP-65 (14-16)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.0001	0.0E+00

Bottom-Line: Yes, levels are below direct-contact concern.

Date of Entry: 8/16/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Trimethylbenzene, 1,2,4-	95-63-6	373.	-	219.	Csat		0.045		0.0001	

NR 720 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

BRRTS # :
Type BRRTS No. Here (If Known)
GP-66(10-12)

# of Soil-Concentration Entries: 1

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	1.6E-10

Date of Entry: 9/20/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Methyl tert-Butyl Ether (MTBE)	1634-04-4	93,000.	282.	282.	ca		0.044		0.	1.6E-10

NR 720 Direct-Contact Exceedance - Hazard - Risk Calculation Summary from Soil Data

BRRTS # :
Type BRRTS No. Here (If Known)
GP-67(2-3)

# of Soil-Concentration Entries: 1

Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
0	0.	0.0E+00

Bottom-Line: Yes, levels are below INDUSTRIAL direct-contact concern.

Date of Entry: 9/20/2017.
Date of Worksheet Used: 03/14/2017.

List below only has contaminants with data.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Xylenes	1330-20-7	3,570.	-	260.	Csat		0.14		0.	

Appendix F
Draft Special Provisions

Excavation, Hauling, and Disposal of Petroleum Contaminated Soil, Item 205.0501.S.

A Description

A.1 General

This special provision describes excavating, loading, hauling, and disposing of petroleum contaminated soil at a DNR approved bioremediation facility. The closest DNR approved bioremediation facilities are:

Republic Services Kestrel Hawk Landfill
1989 Oakes Rd.
Racine, WI 53406
(262) 884-7081

Waste Management Pheasant Run RDF Landfill
10712 South 124th Street
Bristol, WI 53104
(800) 963-4776

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI 53150
(414) 529-1360

Perform this work in accordance to standard spec 205 and with pertinent parts of Chapters NR 700-754 of the Wisconsin Administrative Code, as supplemented herein. Per NR 718.07, a solid waste collection and transportation service-operating license is required under NR 502.06 for each vehicle used to transport contaminated soil.

A.2 Notice to the Contractor – Contaminated Soil Locations

The department completed testing for soil contamination at locations within this project where excavation is required.

Testing indicated that petroleum-contaminated soil is present at the following location as shown on the plans:

1. Station 222+40 WB to 223+50 WB from 120 feet left to 70 feet right, from approximately 4 to 16+ feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).
2. Station 114+10 GNB to 115+30 GNB from reference line to project limits right, from approximately 1 to 4 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

3. Station 296+40 WB to 296+95 WB 95' left to 180' left of reference line, from approximately 1 to 16 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

4. Station 296+95 WB to 298+55 WB 95 feet left to 180 feet left of reference line, from approximately 4 to 16 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

5. Station 296+65 WB to 298+20 WB 50 feet left to 95 feet left of reference line, from approximately 1 to 8 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

6. Station 331+00 WB to 332+25 WB from project limits left to 25 feet right, from approximately 1 to 6 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

7. Station 359+40 EB to 361+00 EB from 25 feet left of reference line to project limits right, from approximately 1 to 6 feet below grade. Soil excavated from this area will require off-site bioremediation. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

Directly load soil excavated by the project at the above locations into trucks that will transport the soil to a WDNR-licensed bioremediation facility.

If contaminated soils are encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer.

No active groundwater monitoring wells were observed within the construction limits. If active groundwater monitoring wells are encountered during construction, notify the engineer and protect them to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do no conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

A.3 Excavation Management Plan

The excavation management plan for this project has been designed to minimize the offsite bioremediation of contaminated material. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence

letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities at these sites contact:

Name:	Andrew Malsom
Address:	141 NW Barstow Street, PO Box 798, Waukesha, WI 53187-0798
Phone:	262-548-6705
Fax:	262-548-6891
e-mail:	andrew.malsom@dot.wi.gov

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	TRC Environmental Corporation
Address:	150 N. Patrick Blvd., Ste. 180, Brookfield, WI 53045
Contact:	Tyler Stapel
Phone:	262-901-2142 (office), 262-825-2045 (cell)
Fax:	262-879-1220
e-mail:	wstapel@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of contaminated soil to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying contaminated soils to be hauled to the bioremediation facility;
3. Documenting that activities associated with management of contaminated soil are in conformance with the contaminated soil management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of contaminated soil from the bioremediation facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the areas of contamination to the environmental consultant. Also notify the environmental consultant at least three calendar days prior to commencement of excavation activities in the contaminated area.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation activities in the contaminated area. Perform excavation work in each of the contaminated areas on a continuous basis until excavation work is completed.

Identify the DNR approved bioremediation facility that will be used for disposal of contaminated soils, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation activities in the contaminated areas or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals for disposal of contaminated soils from the bioremediation facility. Do not transport contaminated soil offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements
Add the following to standard spec 107.1:

During excavation activities, expect to encounter soil contaminated with gasoline, diesel fuel, fuel oil, or other petroleum related products and metals. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each contaminated site location as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction
Add the following to standard spec 205.3:

Control operations in the contaminated areas to minimize the quantity of contaminated soil excavated.

The environmental consultant will periodically evaluate soil excavated from the contaminated areas to determine if the soil will require offsite bioremediation. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul soils designated by the environmental consultant for offsite bioremediation to the DNR approved bioremediation facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of petroleum-contaminated soils or residues. Prior to transport, sufficiently dewater soils designated for off-site bioremediation so as not to contain free liquids.

If dewatering is required in an area of known contamination, water generated from dewatering activities may contain contaminants and require testing, special handling and disposal. Such water may, with approval from the City of Racine Wastewater Utility, be discharged to the sanitary sewer as follows:

- Meet all applicable requirements of the City of Racine Wastewater Utility including the control of suspended solids. Perform all necessary monitoring to document compliance with the City of Racine Wastewater Utility requirements. Furnish, install, operate, maintain, disassemble,

and remove treatment equipment necessary to comply with the City of Racine Wastewater Utility requirements.

- Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Costs associated with excavation and dewatering in the contaminated area are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from the construction project.

Limit excavation in the location described in A.2 to minimize the handling of groundwater. Notify the engineer of any dewatering activities, and obtain any permits necessary to discharge or dispose of contaminated water. Provide copies of such Permit to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

D Measurement

The department will measure Excavation, Hauling, and Disposal of Petroleum Contaminated Soil in tons of contaminated soil, accepted by the bioremediation facility as documented by weight tickets generated by the bioremediation facility.

E Payment

The department will pay for measured quantities at the contract unit price under the following bid item:

ITEM NUMBER	DESCRIPTION	UNIT
205.0501.S	Excavation, Hauling, and Disposal of Petroleum Contaminated Soil	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and treatment via bioremediation of contaminated soil; obtaining solid waste collection and transportation service operating licenses; assisting in the collection soil samples for field evaluation; and dewatering of soils prior to transport, if necessary.

Management of Solid Waste, Item SPV.0195.01.

A General

A.1 Description

This work will conform with the requirements of Section 205 of the Standard Specifications; to pertinent parts of the Wisconsin Administrative Code, Chapters NR 700-736 Environmental Investigation and Remediation of Environmental Contamination; Wisconsin Administration Code, Chapters NR 500-538, Solid Waste; and as shown on the plans and as supplemented herein.

Soil containing chlorinated solvents will be encountered within the construction limits. The solid waste may contain NR 500 non-exempt industrial wastes including soil mixed with foundry sand. Impacted waste material excavated during construction which cannot in the opinion of the environmental consultant be managed as common excavation or as petroleum-contaminated soil will be managed as solid waste.

This work consists of excavating, segregating, temporary stockpiling, loading, hauling, and disposing of solid waste material at a WDNR-approved disposal facility. The nearest WDNR-approved disposal facilities are:

Republic Services Kestrel Hawk Landfill
1989 Oakes Rd.
Racine, WI 53406
(262) 884-7081

Waste Management Pheasant Run RDF Landfill
10712 South 124th Street
Bristol, WI 53104
(800) 963-4776

Advanced Disposal Emerald Park Landfill
W124S10629 South 124th Street
Muskego, WI 53150
(414) 529-1360

Provide information to the environmental consultant and engineer that indicates the WDNR-approved disposal facility that the contractor will use.

A.2 Notice to the Contractor–Solid Waste Locations

The department and others completed hazardous materials assessment for locations within this project where excavation is required. Investigation for soil contamination was conducted at select locations. Results indicate that solid waste (foundry sand and soil contaminated with chlorinated solvents) is present at the following locations as shown on the plans:

1. Station 361+00 EB to 364+40 EB from 25 feet left of reference line to project limits right, from approximately 1 to 16+ feet below grade. Soil excavated from this area will require off-site disposal as solid-waste. The estimated volume of contaminated soil to be excavated at this location is ____ cubic yards (approximately ____ tons using a conversion factor of 1.7 tons per cubic yard).

Directly load solid waste soil excavated by the project at the above location into trucks that will transport the material to a WDNR-licensed landfill facility for landfill disposal.

If obviously contaminated soils or signs of NR 500 non-exempt solid waste and hazardous materials are unexpectedly encountered elsewhere on the project, terminate excavation activities in the area and notify the engineer. Examples of these unexpected conditions may include, but are not limited to, buried containers or tanks, noxious odors and fumes, stained soils, sheen on ground water, other industrial wastes, and significant volumes of municipal or domestic garbage.

No active groundwater monitoring wells were observed within the construction limits. If active groundwater monitoring wells are encountered during construction, notify engineer and protect them to maintain their integrity. The environmental consultant will determine if monitoring wells need to be maintained. For monitoring wells that do need to be maintained, adjust the wells that do not conflict with structures or curb and gutter to be flush with the final grade. For wells that conflict with the previously mentioned items or if monitoring wells are not required to be maintained, they will be abandoned by others.

If dewatering is required at the above location, conduct the dewatering in accordance with Section C below.

A.3 Excavation Management Plan Approval

The excavation management plan for this project has been designed to minimize the off-site disposal of contaminated waste. The excavation management plan, including these special provisions, has been developed in cooperation with the WDNR. The WDNR concurrence letter is on file at the Wisconsin Department of Transportation. For further information regarding previous investigation and remediation activities in these areas contact:

Name:	Andrew Malsom
Address:	141 NW Barstow Street, Waukesha, WI 53187-0798
Phone:	262-548-6705
Fax:	262-548-6891
e-mail:	andrew.malsom@dot.state.wi.us

A.4 Coordination

Coordinate work under this contract with the environment consultant:

Consultant:	TRC Environmental Corporation
Address:	150 N. Patrick Blvd. Ste. 180, Brookfield, WI 53045
Contact:	Tyler Stapel
Phone:	262-901-2142
Fax:	262-825-2045
E-mail:	wstapel@trcsolutions.com

The role of the environmental consultant will be limited to:

1. Determining the location and limits of solid waste to be excavated based on soil analytical results from previous investigations, visual observations, and field screening of soil that is excavated;
2. Identifying soils to be hauled to the landfill facility;

3. Documenting that activities associated with management of solid waste are in conformance with the solid waste management methods for this project as specified herein; and
4. Obtaining the necessary approvals for disposal of solid waste from the landfill facility.

Provide at least a 14-calendar day notice of the preconstruction conference date to the environmental consultant. At the preconstruction conference, provide a schedule for all excavation activities in the area of solid waste fill described in A.2 to the environmental consultant. Identify the WDNR licensed landfill facility that will be used for disposal of solid waste, and provide this information to the environmental consultant no later than 30 calendar days prior to commencement of excavation in the impacted area or at the preconstruction conference, whichever comes first. The environmental consultant will be responsible for obtaining the necessary approvals from the landfill facility for disposal of the solid waste.

Coordinate with the environmental consultant to ensure that the environmental consultant is present during excavation in the impacted area. Notify the environmental consultant at least three calendar days prior to commencement of excavation in the impacted area. Perform excavation in the impacted area on a continuous basis until excavation work is completed. Do not transport soil containing solid waste offsite without prior approval from the environmental consultant.

A.5 Health and Safety Requirements
Supplement standard spec 107.1 with the following:

During excavation activities, expect to encounter historic fill contaminated with industrial waste (foundry sand) and associated regulated metals and organic compounds. Site workers taking part in activities that will result in the reasonable probability of exposure to safety and health hazards associated with hazardous materials shall have completed health and safety training that meets the Occupational Safety and Health Administration (OSHA) requirements for Hazardous Waste Operations and Emergency Response (HAZWOPER), as provided in 29 CFR 1910.120.

Prepare a site-specific Health and Safety Plan, and develop, delineate and enforce the health and safety exclusion zones for each impacted area as required by 29 CFR 1910.120. Submit the site-specific health and safety plan and written documentation of up-to-date OSHA training to the engineer prior to the start of work.

B (Vacant)

C Construction
Subsection 205.3 of the Standard Specification is supplemented with the following:

Control operations in the impacted area to minimize the quantity of soil excavated.

The environmental consultant will periodically monitor soil excavated from the area identified in A.2 above. The environmental consultant will evaluate excavated soil based on field screening results, visual observations, and soil analytical results from previous environmental investigations. Assist the environmental consultant in collecting soil samples for evaluation using excavation equipment. The sampling frequency shall be a maximum of one sample for every 20 cubic yards excavated.

Directly load and haul solid waste soil designated by the environmental consultant for offsite disposal to the WDNR approved landfill facility. Use loading and hauling practices that are appropriate to prevent any spills or releases of the material. Prior to transport, sufficiently dewater soils designated for off-site disposal so as not to contain free liquids.

Verify that the vehicles used to transport material are licensed for such activity in accordance with applicable state and federal regulations. Obtain the necessary disposal facility approvals and WDNR approvals for disposal. Do not transport regulated solid waste off-site without obtaining the approval of the environmental consultant and engineer and notifying the disposal facility.

During excavations in the areas of known contamination, larger chunks of clean concrete (~2 cubic feet), asphalt and bricks shall be segregated from the fill, to the extent practical and managed as common excavation. Under NR 500.08 this material is exempt from licensing and requirements of Wisconsin Administrative Code NR 500-538 of the solid waste regulations, and will be reused as designated by the engineer as fill on the project, or it will be disposed of off-site at the contractor's disposal site(s).

If dewatering is required in areas of known contamination, water generated from dewatering activities may contain petroleum compounds and/or metals. Such water may require analytical testing, and with approval of the City of Racine Wastewater Utility be discharged to the sanitary sewer as follows:

1. Meet all applicable requirements of the City of Racine Wastewater Utility including the control of suspended solids. Perform all necessary monitoring to document compliance with the City of Racine Wastewater Utility requirements. Furnish, install, operate, maintain, disassemble, and remove treatment equipment necessary to comply with the City of Racine Wastewater Utility requirements.
2. Ensure continuous dewatering and excavation safety at all times. Provide, operate, and maintain adequate pumping equipment and drainage and disposal facilities.

Notify the engineer of any dewatering activities, and obtain any permits necessary to discharge water. Provide copies of such permits to the engineer. Meet any requirements and pay any costs for obtaining and complying with such permit use. Follow all applicable legislative statutes, judiciary decisions, and regulations of the State of Wisconsin.

Costs associated with excavation dewatering in contaminated areas are considered incidental to this pay item. The Wisconsin Department of Transportation will be the generator of regulated solid waste from this construction project.

D Measurement

The department will measure solid waste by the ton of waste accepted by the disposal facility and as documented by weight tickets.

E Payment

The department will pay for measured quantities at the contract unit price under the following item:

ITEM NUMBER	DESCRIPTION	UNIT
SPV.0195.01	Management of Solid Waste	Ton

Payment is full compensation for excavating, segregating, loading, hauling, and landfill disposal of solid waste; obtaining solid waste collection and transportation service operating licenses; assisting in the collection of soil samples for field evaluation; dewatering of soils prior to transport, if necessary; and for furnishing all labor, tools, equipment, and incidentals necessary to complete the work.

Appendix G
Environmental Liability and Financial Analysis

WisDOT STH 50 Mainline Phase 1 Site 35
6500 75th St. (STH 50), Kenosha, Kenosha County, Wisconsin
WisDOT ID# 1310-10-00
Environmental Liability Financial Analysis

September, 2017

Background

The Wisconsin Department of Transportation (WisDOT) is considering the acquisition of a property at 6500 75th St. (STH 50) in the Kenosha, herein "the parcel". The WisDOT is evaluating acquisition of the parcel for clearing an area within a future "jug handle intersection" with the potential for future excavation for a storm sewer retention pond. This parcel is currently used as for a gasoline service station with three active 10,000 gallon USTs that contain unleaded gasoline. There are environmental impacts at the parcel, as described in the Phase 2.5 Report. TRC contacted the WDNR, and a release report is to-be filled to report the contamination.

The WisDOT plans to acquire the property, and would also acquire the environmental liability. The legal agreement the WisDOT plans to enter should be reviewed by the WisDOT council, and should be discussed with the Wisconsin Department of Natural Resources (WDNR) legal department to ensure the appropriate information is included regarding responsibility for the existing contamination.

Financial Analysis

A financial analysis was completed for the WisDOT, outlining potential costs associated with environmental liability factors that will affect future site expenses. Two scenarios were considered. Costs associated with both scenarios are related to environmental factors only. Costs associated with factors not related to the contamination encountered via the Phase 2.5 Investigation, such as building demolition, clearing and grubbing, or excavation and disposal of non-impacted soil are not included. Costs associated with each scenario are shown in Table 1.

Base Area Assumptions

The area of the parcel is listed at 1.23 acres. The WisDOT is considering managing the environmental liability by either excavating the impacted soil as part of the retention pond project or by leaving the impacted soil in place and requesting closure from the WDNR.

Scenarios for Cost Estimates

For the parcel a cost-benefit analysis, including two scenarios, was completed.

Retention Pond Excavation Scenario:

- This estimate includes only the excavation of soil/concrete/asphalt.
    - Demolition/disposal of above ground structures is not included.
    - Removal/disposal of tanks or other underground structures is not included.
- The retention pond contemplated for the property will utilize the majority of the property.
    - The pond will begin at 5-feet (ft) inside the property boundary to allow for fencing and continuing 16-ft to allow for a 1:1 sidewall slope and a maximum pond depth of 16-ft.

- The Phase 2 investigation identified the following impacted locations, which will be excavated as designated:
    - GP-63 impacted from 2-4-ft and 14-16-ft below ground surface (bgs), excavation for biopile from 1-16-ft bgs
    - GP-64 impacted from 10-11-ft bgs, excavation for biopile from 4-16-ft bgs
    - GP-66 impacted from 10-12-ft bgs, excavation for biopile from 4-16-ft bgs
    - GP-67 impacted from 2-3-ft bgs, excavation for biopile from 1-8-ft bgs
- Excavations for biopile disposal are assumed to be 10-ft diameter excavations centered on GP-64 and GP-67. Excavation for biopile disposal for GP-63 and GP-66 is assumed to be one excavation extending between the two locations and 10-ft past each location. These excavations are shown on the attached figure in red.
- TRC employee will field screen soil while excavations occur in the area of the identified impacts.
- All impacted soil excavated will be disposed of as biopile. All unimpacted soil excavated will be disposed of as clean fill.
- No remediation system will be required to manage the contamination. No groundwater samples are required for closure.
- Soil concentrations will be such that contaminated soil will not be considered hazardous waste.
- No backfill of excavations is included.
- Site closure and associated documents, as described in the second scenario described below, would be submitted and requested from the WDNR.

Calculations:

Volume of Impacted Soil

- Volume of soil at GP-64 (V_{GP-64}) = A_{GP-64} * 8 ft = 314 ft^2 * 8 ft = 2,512 ft^3 = 93 cy
- Volume of soil at GP-67 (V_{GP-67}) = A_{GP-67} * 8 ft = (22 ft^2 + 287 ft^2) * 8 ft = 2,472 ft^3 = 92 cy
    - Note: Since GP-67 is located in the sloped area, the volume of removal may be less than calculated, but 92 cy is a conservative estimate for the purposes of this cost estimate.
- Volume of soil at GP-63 and GP-66 ($V_{GP-63\ and\ GP-66}$) = $A_{GP-63\ and\ GP-66}$ * 8 ft = (370 ft^2 + 652 ft^2) * 8 ft = 8,176 ft^3 = 303 cy
    - Note: GP-66 is impacted from 10-12-ft bgs and in the sloped area and GP-63 is impacted from 2-4-ft bgs. Therefore it is assumed that the area surrounding GP-66 (half the total area of this excavation) will be excavated from 8-16-ft bgs for biopile disposal and that the area surrounding GP-63 (half the total area of this excavation will be excavated from 0-8-ft bgs for biopile disposal. Since GP-66 is located in the sloped area, the volume of removal may be less than calculated, but is a conservative estimate for the purposes of this cost estimate.
- Volume of Impacted Soil ($V_{biopile}$) = V_{GP-64} + V_{GP-67} + $V_{GP-63\ and\ GP-66}$ = 488 cy ~500 cy

Mass of Impacted Soil

- Approximating 1 cy = 1.5 tons:
- Mass of Impacted Soil ($m_{biopile}$) = 500 cy *1.5 ton/cy = 750 ton

Estimated Cost Associated with Excavation and Disposal of Impacted Soil

- Excavation and disposal of impacted soil carries an estimated cost of $50.00/ton
- Approximating cost of excavation and disposal of impacted soil = 750 ton * 50 $/ton = $37,500
- TRC Labor Costs for oversight, field screening, documentation and reporting of soil management = $13,735
- Direct Expenses = $2,930
- TRC and WDNR costs to request site closure, as described below = $10,300
- Total Estimated Cost associated with impacted soil = $45,200 – $96,800
- The cost range is based on -30 to +50% the expected cost.

Site Closure Scenario:

- This scenario assumes no excavation of impacted soil.
- As it is currently unknown how the WisDOT would maintain or manage the parcel in the event the retention pond is not excavated, it is assumed the parcel will remain covered, in terms of total impervious areas, in the manner in which it currently resides.
    - As a result, only costs associated with preparation and submittal of WDNR closure request documents are included. No costs for additional site work, including cap repairs or installation, are included.
- Scoped tasks include preparation and submittal of WDNR form 4400-202.

Estimated costs to request site closure

- TRC labor costs to prepare and submit site closure request = $8,935
- WDNR Site Closure Fees for Closure Request = $1,050
- WDNR Site Closure Fee for Soil = $300
- Total Estimated Cost associated with site closure $7,200 – $15,500
- The cost range is based on -30 to +50% the expected cost.

Summary & Conclusions of Financial Analysis

The financial analysis completed for the parcel considered two scenarios. The estimated cost ranges for each of these scenarios are:

	Retention Pond Excavation and Closure Request	**Closure Request with No Site Work**
Estimated Cost	**$45,200 - $96,800**	**$7,200 – $15,500**
Total Impacted Volume Removed (cy)	500	--
Total Impacted Tonnage Removed (tons)	750	--
Estimated Project Duration	4 months	2 months