LETTER OF TRANSMITTAL

To: **Ms. Nancy Ryan**
Mr. Chue Yee Yang, RR Program Assistant
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee, WI 53212-3128

From: **Adam Roder & Stacy Oszuscik**
The Sigma Group, Inc.
1300 W. Canal Street
Milwaukee, WI 53233

Please check the type(s) of documents you have enclosed. Submittals will be tracked and filed based on the information you provide. **Include the FID *and* BRRTS numbers which have been assigned to this site, and identify the intent of the document(s) you are submitting in order to speed processing.** Please attach any required fees to this checklist.

Date: May 15, 2018
Site Name: Freshwater Plaza Lot 4
Address: 200 E. Greenfield Avenue
Milwaukee, WI 53204
FID# 341267960
BRRTS # 02-41-576420

IS THIS RELEASE PECFA-ELIGIBLE?
☐ YES ☑ NO ☐ UNKNOWN AT THIS TIME

Type of Submittal:
☐ LUST ☑ ERP ☐ VPLE ☐ OTHER

CHECK	Agreements	FEE
	Tax assignment agreement - ss.75.106(2)(d) & 292.55	$700
	Tax cancellation agreement - ss. 75.106(2)(d) & 292.55	$700
	Negotiated agreements - s. 292.11(7)(d)2	$1,400
	Technical Assistance (s. 292.55)	**FEE**
	NR 708 No Further Action Letter	$350
	NR 716 No Further Investigation	$700
	NR 716 Site Investigation Workplan	$700
	NR 716 Site Investigation Report	$1,050
	NR 720 Soil Cleanup Standards/Reports	$1,050
	NR 722 Remedial Action Options Report	$1,050
	NR 724 Remedial Design Report	$1,050
	NR 724 Operation and Maintenance Report	$425
	NR 724 Construction Documentation Reports	$350
	NR 724 Long-Term Monitoring Plan	$425
	NR 726 Case Closure Action	$1,050
	NR 506 Exemption for building on a historic waste site	$700
X	Other Technical Assistance - Project Status Update	**$700**
	Liability Clarification Letters	**FEE**
	s. 292.13(3) Off-Site Exemption Letters	$700
	s. 292.55 Lease Letters - Single Properties	$700
	s. 292.55 Lease Letters - Multiple Properties	$1,400
	s. 292.55 General Liability Clarification Letters	$700
	s. 292.21(1)(c)1.d. Lender Assessments	$700
	Department Database Fees (ss. 292.12 and 292.57)	**FEE**
	Sites with groundwater contamination that attains or exceeds ch. NR 140	$350
	Sites with soil contamination that attains or exceeds ch. 720 RCLs	$300
	Sites not otherwise addressed in this schedule, where the department imposes any other limitation or condition in accordance with s. 292.12(2)	$350
	Cases submitted for closure with monitoring wells not properly abandoned, without residual groundwater contamination	$350
	Modification or removal of a site or property from the database	$1,050
	Other / Miscellaneous	

Remarks: ***"Project Status Update & Technical Assistance Request - May 2018" enclosed (Sigma check included for review fee)***

THE SIGMA GROUP
Single Source. Sound Solutions.

May 15, 2018 Project Reference #14160

Ms. Nancy Ryan
c/o Mr. Chue Yang, Program Assistant
Wisconsin Department of Natural Resources
Remediation & Redevelopment Program
2300 N. Dr. Martin Luther King Jr. Drive
Milwaukee, WI 53212

Subject: Project Status Update & Technical Assistance Request - May 2018
Freshwater Plaza Lot 4 - 200 E. Greenfield Avenue, Milwaukee, WI
BRRTS #02-41-576420, FID #341267960

Dear Ms. Ryan:

On behalf of Freshwater Plaza Corp. (Freshwater), The Sigma Group, Inc., (Sigma) has prepared this status report for the Freshwater Plaza Lot 4 property located at 200 E. Greenfield Avenue in Milwaukee, Wisconsin (hereafter the "Site") to update the Wisconsin Department of Natural Resources (WDNR) about environmental investigation and soil management work. We are requesting that the WDNR approve the recommendations presented at the end of this letter; a $700 technical assistance review fee is attached to receive a written response

SITE ADDRESS UPDATE

The Site address is identified as 200 - 230 E. Greenfield Street with a tax key number of 4311304000 and zoning as PD "Planned Development" according to the City of Milwaukee GIS mapping system. The Redevelopment Authority of the City of Milwaukee (RACM) is still currently the property owner; however, Freshwater Plaza Corp. is the responsible party to achieve regulatory case closure.

ENVIRONMENTAL INVESTIGATION AND SOIL MANAGEMENT UPDATES

The following environmental activities have been implemented at the Site since the submittal of Sigma's October 2015 letter report[1].

Groundwater Investigation Activities and Results. A groundwater sampling event was completed for the entire Freshwater Plaza project on February 4 and 5, 2016. Groundwater samples were collected from the monitoring well network in place at that time, which included wells SMW-12, SMW-15, and SMW-20 as shown in **Figure 1**. Groundwater samples were analyzed for the following parameters:

[1] *Project Status Update - October 2015, Freshwater Plaza: NE Corner of S. 1st Street and E. Greenfield Avenue, Milwaukee, WI* by Sigma (dated October 13, 2015)

- Volatile organic compounds (VOCs): SMW-12 and SMW-15
- Polynuclear aromatic hydrocarbons (PAHs): SMW-20

Site Hydrogeology. In February 2016, depth to groundwater measurements from the shallow monitoring wells on the Site ranged between 6.0 feet below ground surface (bgs) at well SMW-20 and 8.4 feet bgs at well SMW-15. Flow direction across the Site has generally been to the east, based on previous groundwater elevations measured during sampling events across the overall Freshwater Plaza project area. Groundwater elevation data are summarized in **Table 1**.

Groundwater Quality Results. Discussion of groundwater quality data associated with the February 2016 sampling event is presented below. The groundwater quality data are summarized in **Table 2**, and the laboratory analytical reports are included as **Attachment 1**.

- VOCs
  - All concentrations were reported below the laboratory detection limits in samples from SMW-12 and SMW-15, except for methyl-tert-butyl-ether (MTBE) which was reported above its NR Preventive Action Limit (PAL) in well SMW-12. The MTBE concentration is consistent with previous results at this same location and is stable over time; this residual MTBE impact is associated with the petroleum hydrocarbon impacts identified (and remediated during a targeted soil excavated project in May 2015) on Freshwater Plaza Lot 1 (BRRTS #03-41-001253).
  - During the groundwater sampling events that have been completed at the Site between August 2014 and February 2016, all VOCs have been reported below the laboratory detection limits in each of the wells, except for the MTBE impacts above its NR 140 PAL in well SMW-12 and two estimated concentrations of MTBE (below the NR 140 PAL) in well SMW-15 in August and October 2014.

- PAHs
  - Three PAH concentrations were reported above NR 140 PALs in SMW-20; however, in each case the concentrations were estimated (flagged by the laboratory as being between the Limit of Detection [LOD] and Limit of Quantitation [LOQ]) and are not considered PAL exceedances per NR 140.14(3)(c). These low-level detections of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene are consistent with previous results at this sample location and are stable over time.
  - During the groundwater sampling events that have been completed at the Site between August 2014 and February 2016, all PAHs have been reported below the laboratory detection limits and/or NR 140 PALs in each of the wells, except for low-level, estimated concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene in well SMW-20.

- Dissolved RCRA metals
  - RCRA metals were not analyzed in groundwater samples since October 2014 based on the lack of impacts. Based on the August and October 2014 dissolved RCRA metals results, all concentrations were reported below laboratory detection limits and/or NR 140 PALs in each of the wells, except for a single low-level, estimated (reported between LOD and LOQ) concentration of lead that was slightly above its NR 140 PAL in August 2014 (but below the laboratory detection limit in October 2014).

Soil Management Activities. In fall 2015, construction began on Freshwater Plaza Lot 1 (north and northwest of the Site) and Lot 3 (west of the Site). Pile driving activities began on Lot 1 for the approximately 46,000 square foot Cermak Fresh Market grocery store with structural floor slab, and mass excavation began for the approximately 22,000 square foot mixed-use building on Lot 3 with one level of underground parking, commercial space (1st floor), and residential apartments (2nd through 4th floors). No building or infrastructure improvements have yet been made at the Site except for the asphalt-paved road and concrete sidewalk along the west edge of the Site as shown in **Figure 1**.

During construction of the Cermak Fresh Market grocery store on Freshwater Plaza Lot 1, excavation activities produced approximately 3,000 cubic yards of soil for reuse at the south end of the Lot 1 parking lot and north end of the Lot 3 parking lot to raise the subgrade to required elevations per the WDNR-approved Soil Management Plan (details were presented in a March 2018 documentation letter for Lot 1 sent to the WDNR[2]). An additional estimated 2,000 cubic yards of soil spoils generated during the grocery store construction were stockpiled on the Site as discussed in emails with WDNR included as **Attachment 2**.

- Grab soil samples (Grab 1 through Grab 6) were collected from the stockpile on March 22, 2016 to further characterize the stockpiled material; previous soil samples from Lot 1 (SB-01, 0 to 2 feet and SMW-21, 1 to 3 feet) were also relied upon to be representative of this soil. The soil stockpile was approximately 120 feet long by 60 feet wide by 12 feet tall at its highest point and generally consisted of brown silty sand with varying amounts of gravel. Collected samples were submitted for laboratory analysis of VOCs, PAHs, RCRA metals, and polychlorinated biphenyls (PCBs). The soil quality data are summarized in **Table 3**, and the laboratory analytical report is included as **Attachment 3**.
  - VOC results are similar to previous VOC data previously collected at the Site. Most VOCs were reported below the laboratory detection limits, but there were some low-level estimated concentrations (reported between LOD and

[2] *Project Status Update - March 2018, Freshwater Plaza Lot 1 - 1277 S. Barclay Street, Milwaukee, WI 53204, BRRTS #02-41-576417 "Freshwater Plaza Lot 1 Cermak" and #03-41-001253 "Grossman Bros - Area 1", FID #241400390* by Sigma (dated March 30, 2018)

LOQ) of naphthalene, toluene, and xylenes that were below NR 720 Residual Contaminant Levels (RCLs).

- PAH results are similar to or slightly higher than PAH data previously collected at the Site. Some concentrations of benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene exceeded NR 720 direct contact RCLs for a non-industrial property, while some concentrations of benzo(a)pyrene, benzo(b)fluoranthene, and chrysene exceeded NR 720 protection of groundwater RCLs.

- RCRA metals results are similar to previous RCRA metals data previously collected at the Site. Lead and mercury concentrations typically exceeded NR 720 protection of groundwater RCLs, while the other metals results were reported below the laboratory detection limits and/or at background levels.

- PCB results are similar to or slightly higher than the PCB data previously collected at the Site. Most PCB-1242 and PCB-1254 results exceeded NR 720 direct contact RCLs for a non-industrial property and protection of groundwater RCLs. These PCB levels are consistent with PCB impacts detected in the eastern half of the Cermak Fresh Market grocery store footprint as reported in Sigma's October 2015 update report.

The soil stockpile was gradually spread out by the earthworks contractor in summer and fall 2016 across the northern three-fourths of the Site at depths ranging from approximately 1 to 3 feet such that by December 2016, the soil stockpile had been graded to a level subgrade.

With Sigma's assistance, Freshwater evaluated a handful of potential sources of silty clay to be used for the 6-inch thick interim cap at the Site (and soil covers for other greenspace areas across the Freshwater Plaza redevelopment project). The source of clay that was selected by Freshwater was Waste Management's Orchard Ridge facility in Menomonee Falls where native silty clay was available from a new landfill cell expansion. Based on the information provided about this borrow source, there were no known indicators to suggest that the native clay might be impacted, and it was therefore reasonable to conclude that the clay was clean. In April and May 2017, this native silty was imported for use as an interim cap across the entire Site. The silty clay was spread out at a thickness of approximately 6 inches and seeded with a prairie grass mix.

Photographs of the soil management and temporary capping activities are included as **Attachment 4.**

Well Abandonments. Soil vapor probe SVP-10 was damaged by construction equipment and was abandoned with bentonite on December 12, 2015. Monitoring well SMW-12 was damaged during construction of the Cermak Fresh Market grocery store and was abandoned with bentonite on May 20, 2016. Copies of the well abandonment forms are included in **Attachment 5.**

Additionally, soil vapor probe SVP-7 and monitoring well SMW-15 was also damaged / buried during the soil grading activities in fall 2016. Attempts will be made to located both of these wells during future redevelopment / construction work on the Site so that they may be properly abandoned.

PROPOSED REDEVELOPMENT PLANS

Freshwater has been in discussions with the City of Milwaukee about updated redevelopment plans for a mixed-use (retail / residential) building complex instead of an office building as originally anticipated. It is Sigma's understanding that the City of Milwaukee has agreed to this change in future land usage; a conceptual redevelopment plan map is included as **Attachment 6.**

RECOMMENDATIONS & TECHNICAL ASSITANCE REQUEST

Soil analytical data collected to date have adequately characterized the impacts at the Site with respect to understanding potential risks to human health and the environment. In consideration of the proposed redevelopment plans that will effectively cap the Site with engineered barriers to prevent direct contact with underlying soil impacts, no further soil sampling is recommended, unless needed for soil management / disposal approvals (see below).

Groundwater analytical results indicate that no VOC, PAH, or RCRA metal concentrations exceed NR Enforcement Standards (ESs) at the Site; the only confirmed PAL exceedance over multiple sampling events is for MTBE in well SMW-12, and concentrations are stable over time. It is recommended that monitoring well SMW-20 be abandoned and no further groundwater monitoring be conducted at the Site. Considering that the Site and surrounding vicinity is supplied by the City of Milwaukee potable water supply system (which obtains water from Lake Michigan) and the overall lack of significant groundwater impacts at the Site, groundwater does not pose a human health risk via ingestion.

The remedial strategies presented in the November 2014 *Site Investigation & Remedial Action Plan Report*[3] still apply to the updated proposed redevelopment plan, including:

- Soil Management: It is requested that WDNR comment on the potential for a NR 718 exemption to reuse soil on-site that is disturbed during future construction. If an NR 718 on-site exemption is feasible based on the soil impacts currently identified at the Site, an updated Soil Management Plan / NR 718 exemption request will be prepared. We understand that more details about expected soil volume and the corresponding soil sampling frequency as specified in NR 718.12(1)(e) will be needed for the exemption request.

  If on-site reuse of disturbed soil under NR 718 will not be permitted by the WDNR, Freshwater would like to consider possible off-site disposal under NR 718 at a pre-

[3] *Site Investigation & Remedial Action Plan Report, Northeast Corner of S. 1st Street & E. Greenfield Avenue, Milwaukee, Wisconsin 53204* by Sigma (dated November 10, 2014)

approved contractor disposal property (such as the R & R Excavating contractor disposal site in the Town of Cedarburg); it is requested that the WDNR provide written comment to this possibility as well.

- Subslab Venting System: An active subslab depressurization system will still be designed and constructed beneath the footprint of each building area in accordance with the November 2014 *Remedial Action Plan*. The final depressurization system details will be designed once building plans are finalized.

- Engineered Barriers: As part of redevelopment, the site will be capped with engineered barriers including asphalt and concrete parking lots, roads, and sidewalks and clean soil barriers in any greenspace areas (20 inches clean clay / 4 inches vegetated topsoil) for the permanent soil cover system.

- GIS Registry: Residual soil and/or groundwater impacts will be registered on the WDNR BRRTS GIS system at the time of regulatory case closure.

Sigma and Freshwater Plaza Corp. request the WDNR provide a written response for the technical review of this document, including the recommendations about the completeness of the subsurface investigation work and viability of receiving a NR 718 exemption for either on- or off-site soil management.

If you have any questions about this submittal or the project in general, please contact Sigma at (414) 643-4200. We appreciate your assistance with this redevelopment project.

Sincerely,

THE SIGMA GROUP, INC.

Stacy L. Oszuscik, P.E.
Project Engineer

Adam J. Roder, P.E.
Senior Engineer

Randy E. Boness, P.G.
Manager Geosciences

Enclosures:

$700 check for Technical Assistance fee
Table 1 - Water Level Elevations
Table 2 - Groundwater Analytical Data
Table 3 - Soil Analytical Data
Figure 1 - Lot 4 Site Plan Map
Attachment 1 - Groundwater Laboratory Analytical Report
Attachment 2 - WDNR Correspondence Emails

Attachment 3 - Soil Laboratory Analytical Report
Attachment 4 - Site Photographs
Attachment 5 - Well Abandonment Forms
Attachment 6 - Conceptual Redevelopment Site Plan

cc: Mark Lake - Freshwater Plaza Corp. c/o Wangard Partners (mlake@wangard.com)
Michael Emem - Freshwater Plaza Corp. c/o Wangard Partners (memem@wangard.com)
Dan Casanova - RACM (dan.casanova@milwaukee.gov)

Table 1
Water Level Elevations
Freshwater Plaza - Lot 4, CSM #8731: Northeast Corner of S. 1st Street & E. Greenfield Avenue, Milwaukee, Wisconsin
Sigma Project No. 14160

SMW-12

Ground Elev.: 589.5 (feet datum) Screen Interval: 4.9 to 14.9 (feet bgs)
TOC Elev.: 591.76 (feet datum) 584.6 to 574.6 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
8/20/14	10.13	17.13	7.00	---	581.63	7.87	clear
9/16/14	10.30	NM	6.83	-0.17	581.46	8.04	
10/14/14	10.54	17.13	6.59	-0.24	581.22	8.28	clear
11/26/14	NM	NM	---	---	---	---	
4/21/15	9.45	17.10	7.65	1.06	582.31	7.19	clear
6/8/15	10.26	17.10	6.84	-0.81	581.50	8.00	turbid
10/1/15	10.27	17.10	6.83	-0.01	581.49	8.01	slightly turbid
2/4/16	9.73	17.10	7.37	0.54	582.03	7.47	slightly turbid
Well abandoned on 5/20/2016 due to damage from site construction							

SMW-15

Ground Elev.: 590.5 (feet datum) Screen Interval: 5.0 to 15.0 (feet bgs)
TOC Elev.: 592.63 (feet datum) 585.5 to 575.5 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
8/20/14	10.85	17.12	6.27	---	581.78	8.72	clear
9/16/14	11.13	NM	5.99	-0.28	581.50	9.00	
10/14/14	11.39	17.12	5.73	-0.26	581.24	9.26	clear
11/26/14	NM	NM	---	---	---	---	
4/21/15	10.69	17.15	6.46	0.73	581.94	8.56	clear
6/8/15	NM	NM	---	---	---	---	
10/1/15	11.31	17.15	5.84	-0.62	581.32	9.18	clear
2/4/16	10.54	17.15	6.61	0.77	582.09	8.41	slightly turbid
2/22/17	Well could not be located - apparently damaged and/or buried during recent site grading.						

SMW-20

Ground Elev.: 587.2 (feet datum) Screen Interval: 4.9 to 14.9 (feet bgs)
TOC Elev.: 589.53 (feet datum) 582.3 to 572.3 (feet MSL)

Date	Depth to Groundwater (feet TOC)	Well Depth (feet TOC)	Water Column (feet)	Water Column Difference (feet)	Groundwater Elevation (feet MSL)	Depth to Groundwater (feet bgs)	Physical Observations
8/20/14	8.54	17.23	8.69	---	580.99	6.24	clear
9/16/14	8.83	NM	8.40	-0.29	580.70	6.53	
10/13/14	9.02	17.23	8.21	-0.19	580.51	6.72	clear
11/26/14	NM	NM	---	---	---	---	
4/21/15	8.39	17.20	8.81	0.60	581.14	6.09	clear
6/8/15	NM	NM	---	---	---	---	
10/1/15	8.95	17.20	8.25	-0.56	580.58	6.65	clear
2/4/16	8.27	17.20	8.93	0.68	581.26	5.97	slightly turbid
2/22/17	8.75	17.45	8.70	-0.23	580.78	6.45	water level reading only
7/7/17	8.28	17.45	9.17	0.47	581.25	5.98	water level reading only
10/5/17	8.99	NM	8.46	-0.71	580.54	6.69	water level reading only

Notes:
1. Ground surface and top of casing elevations surveyed by The Sigma Group, Inc.
2. feet MSL = feet above Mean Sea Level
3. feet bgs = feet below ground surface
4. feet TOC = feet below top of casing
5. NM = not measured
6. --- = information not presented or otherwise available in previous consultants' reports (or not caculated in tables above)

Table 2
Groundwater Analytical Data
Freshwater Plaza - Lot 4, CSM #8731: Northeast Corner of S. 1st Street & E. Greenfield Avenue, Milwaukee, Wisconsin
Sigma Project No. 14160

Well Location:		SMW-12							SMW-15							SMW-20						NR 140 ES	NR 140 PAL
Date:		8/20/14	10/14/14	4/22/15	6/8/15	10/1/15	2/4/16	5/20/16	8/20/14	10/14/14	4/22/15	6/8/15	10/1/15	2/4/16	2/22/17	8/20/14	10/13/14	4/21/15	6/8/15	10/1/15	2/4/16		
Water Elevation (feet MSL):		581.63	581.22	582.31	581.50	581.49	582.03	---	581.78	581.24	581.94	NM	581.32	582.09	---	580.99	580.51	581.14	NM	580.58	581.26		
Detected VOCs																							
Benzene	µg/L	<0.24	<0.24	<0.46	<0.46	<0.46	<0.44	Well	<0.24	<0.24	<0.44	NA	<0.44	<0.44	Well	<0.24	<0.24	<0.44	NA	<0.44	NA	5	0.5
sec-Butylbenzene	µg/L	<0.33	<0.33	NA	NA	NA	<1.2	abandoned	<0.33	<0.33	<1.2	NA	<1.2	<1.2	damaged	<0.33	<0.33	<1.2	NA	<1.2	NA	NS	NS
n-Butylbenzene	µg/L	<0.35	<0.35	NA	NA	NA	<1	due to	<0.35	<0.35	<1	NA	<1	<1	/ buried	<0.35	<0.35	<1	NA	<1	NA	NS	NS
tert-Butylbenzene	µg/L	<0.36	<0.36	NA	NA	NA	<1.1	damage	<0.36	<0.36	<1.1	NA	<1.1	<1.1	in	<0.36	<0.36	<1.1	NA	<1.1	NA	NS	NS
Chlorobenzene	µg/L	<0.24	<0.24	NA	NA	NA	<0.46	from	<0.24	<0.24	<0.46	NA	<0.46	<0.46	early	<0.24	<0.24	<0.46	NA	<0.46	NA	NS	NS
Chloromethane	µg/L	<0.81	<0.81	NA	NA	NA	<1.9	site	<0.81	<0.81	<1.9	NA	<1.9	<1.9	2017	<0.81	<0.81	<1.9	NA	<1.9	NA	30	3
4-Chlorotoluene	µg/L	<0.21	<0.21	NA	NA	NA	<0.63	construction	<0.21	<0.21	<0.63	NA	<0.63	<0.63	during	<0.21	<0.21	<0.63	NA	<0.63	NA	NS	NS
Dichlorodifluoromethane	µg/L	<0.44	<0.44	NA	NA	NA	<0.45		<0.44	<0.44	<0.45	NA	<0.87	<0.45	grading	<0.44	<0.44	<0.45	NA	<0.87	NA	1,000	200
1,1-Dichloroethane	µg/L	<0.3	<0.3	NA	NA	NA	<1.1		<0.3	<0.3	<1.1	NA	<1.1	<1.1		<0.3	<0.3	<1.1	NA	<1.1	NA	850	85
1,1-Dichloroethene	µg/L	<0.4	<0.4	NA	NA	NA	<0.65		<0.4	<0.4	<0.65	NA	<0.65	<0.65		<0.4	<0.4	<0.65	NA	<0.65	NA	7	0.7
1,2-Dichloroethane	µg/L	<0.41	<0.41	NA	NA	NA	<0.48		<0.41	<0.41	<0.54	NA	<0.48	<0.48		<0.41	<0.41	<0.54	NA	<0.48	NA	5	0.5
cis-1,2-Dichloroethene	µg/L	<0.38	<0.38	NA	NA	NA	<0.45		<0.38	<0.38	<0.45	NA	<0.45	<0.45		<0.38	<0.38	<0.45	NA	<0.45	NA	70	7
trans-1,2-Dichloroethene	µg/L	<0.35	<0.35	NA	NA	NA	<0.54		<0.35	<0.35	<0.54	NA	<0.54	<0.54		<0.35	<0.35	<0.54	NA	<0.54	NA	100	20
Ethylbenzene	µg/L	<0.55	<0.55	<0.73	<0.73	<0.73	<0.71		<0.55	<0.55	<0.71	NA	<0.71	<0.71		<0.55	<0.55	<0.71	NA	<0.71	NA	700	140
Isopropylbenzene	µg/L	<0.3	<0.3	NA	NA	NA	<0.82		<0.3	<0.3	<0.82	NA	<0.82	<0.82		<0.3	<0.3	<0.82	NA	<0.82	NA	NS	NS
p-Isopropyltoluene	µg/L	<0.31	<0.31	NA	NA	NA	<1.1		<0.31	<0.31	<1.1	NA	<1.1	<1.1		<0.31	<0.31	<1.1	NA	<1.1	NA	NS	NS
Methylene Chloride	µg/L	<0.5	<0.5	NA	NA	NA	<1.3		<0.5	<0.5	<1.3	NA	<1.3	<1.3		<0.5	<0.5	<1.3	NA	<1.3	NA	5.00	0.50
Methyl-tert-butyl-ether	µg/L	***32***	***37***	***34***	***23.8***	***21.2***	***28.1***		0.23 "J"	0.65 "J"	<1.1	NA	<1.1	<1.1		<0.23	<0.23	<1.1	NA	<1.1	NA	60	12
Naphthalene	µg/L	<1.7	<1.7	<2.6	<2.6	<2.6	<1.6		<1.7	<1.7	<1.6	NA	<1.6	<1.6		<1.7	<1.7	<1.6	NA	<1.6	NA	100	10
n-Propylbenzene	µg/L	<0.25	<0.25	NA	NA	NA	<0.77		<0.25	<0.25	<0.77	NA	<0.77	<0.77		<0.25	<0.25	<0.77	NA	<0.77	NA	NS	NS
Tetrachloroethene	µg/L	<0.33	<0.33	NA	NA	NA	<0.49		<0.33	<0.33	<0.74	NA	<0.49	<0.49		<0.33	<0.33	<0.74	NA	<0.49	NA	5.0	0.5
Toluene	µg/L	<0.69	<0.69	<0.39	<0.39	<0.39	<0.44		<0.69	<0.69	<0.44	NA	<0.44	<0.44		<0.69	<0.69	<0.44	NA	<0.44	NA	800	160
1,1,1-Trichloroethane	µg/L	<0.33	<0.33	NA	NA	NA	<0.84		<0.33	<0.33	<0.84	NA	<0.84	<0.84		<0.33	<0.33	<0.84	NA	<0.84	NA	200	40
Trichloroethene	µg/L	<0.33	<0.33	NA	NA	NA	<0.47		<0.33	<0.33	<0.47	NA	<0.47	<0.47		<0.33	<0.33	<0.47	NA	<0.47	NA	5	0.5
1,2,4-Trimethylbenzene	µg/L	<2.2	<2.2	<0.68	<0.68	<0.68	<1.6		<2.2	<2.2	<1.6	NA	<1.6	<1.6		<2.2	<2.2	<1.6	NA	<1.6	NA	NS	NS
1,3,5-Trimethylbenzene	µg/L	<1.4	<1.4	<0.83	<0.83	<0.83	<1.5		<1.4	<1.4	<1.5	NA	<1.5	<1.5		<1.4	<1.4	<1.5	NA	<1.5	NA	NS	NS
Total Trimethylbenzene	µg/L	<3.6	<3.6	<1.51	<1.51	<1.51	<3.1		<3.6	<3.6	<3.1	NA	<3.1	<3.1		<3.6	<3.6	<3.1	NA	<3.1	NA	480	96
Vinyl Chloride	µg/L	<0.18	<0.18	NA	NA	NA	<0.17		<0.18	<0.18	<0.17	NA	<0.17	<0.17		<0.18	<0.18	<0.17	NA	<0.17	NA	0.2	0.02
Xylenes, Total	µg/L	<1.32	<1.32	<2.06	<2.06	<2.06	<3.1		<1.32	<1.32	<3.1	NA	<3.1	<3.1		<1.32	<1.32	<3.1	NA	<3.1	NA	2,000	400
PAHs																							
Acenaphthene	µg/L	0.029 "J"	<0.018	NA	NA	NA	NA		<0.018	<0.018	<0.02	NA	NA	NA		<0.018	<0.018	<0.02	NA	<0.02	<0.02	NS	NS
Acenaphthylene	µg/L	<0.02	<0.02	NA	NA	NA	NA		<0.02	<0.02	<0.021	NA	NA	NA		<0.02	<0.02	<0.021	NA	<0.021	<0.021	NS	NS
Anthracene	µg/L	<0.018	<0.018	NA	NA	NA	NA		<0.018	<0.018	<0.02	NA	NA	NA		<0.018	<0.018	<0.02	NA	<0.02	0.055 "J"	3,000	600
Benzo(a)anthracene	µg/L	<0.023	<0.023	NA	NA	NA	NA		<0.023	<0.023	<0.019	NA	NA	NA		<0.023	0.042 "J"	0.033 "J"	NA	0.0242 "J"	0.046 "J"	NS	NS
Benzo(a)pyrene	µg/L	<0.02	<0.02	NA	NA	NA	NA		<0.02	<0.02	<0.019	NA	NA	NA		<0.02	0.033 "J" **	<0.019	NA	0.0209 "J" **	0.030 "J" **	0.2	0.02
Benzo(b)fluoranthene	µg/L	<0.019	<0.019	NA	NA	NA	NA		<0.019	<0.019	<0.019	NA	NA	NA		<0.019	0.042 "J" **	0.032 "J" **	NA	0.040 "J" **	0.036 "J" **	0.2	0.02
Benzo(ghi)perylene	µg/L	<0.024	<0.024	NA	NA	NA	NA		<0.024	<0.024	<0.024	NA	NA	NA		<0.024	<0.024	<0.024	NA	<0.024	0.029 "J"	NS	NS
Benzo(k)fluoranthene	µg/L	<0.027	<0.027	NA	NA	NA	NA		<0.027	<0.027	<0.018	NA	NA	NA		<0.027	<0.027	<0.018	NA	<0.018	0.032 "J"	NS	NS
Chrysene	µg/L	<0.018	<0.018	NA	NA	NA	NA		<0.018	<0.018	<0.017	NA	NA	NA		<0.018	0.039 "J" **	0.022 "J" **	NA	0.033 "J" **	0.046 "J" **	0.2	0.02
Dibenzo(a,h)anthracene	µg/L	<0.028	<0.028	NA	NA	NA	NA		<0.028	<0.028	<0.025	NA	NA	NA		<0.028	<0.028	<0.025	NA	<0.025	<0.025	NS	NS
Fluoranthene	µg/L	<0.022	<0.022	NA	NA	NA	NA		<0.022	<0.022	<0.018	NA	NA	NA		<0.022	0.075	0.030 "J"	NA	0.041 "J"	0.052 "J"	400	80
Fluorene	µg/L	<0.022	<0.022	NA	NA	NA	NA		<0.022	<0.022	<0.017	NA	NA	NA		<0.022	<0.022	<0.017	NA	<0.017	0.021 "J"	400	80
Indeno(1,2,3-cd)pyrene	µg/L	<0.027	<0.027	NA	NA	NA	NA		<0.027	<0.027	<0.018	NA	NA	NA		<0.027	<0.027	0.018 "J"	NA	<0.018	0.026 "J"	NS	NS
1-Methylnaphthalene	µg/L	0.039 "J"	<0.021	NA	NA	NA	NA		<0.021	<0.021	<0.018	NA	NA	NA		0.048 "J"	<0.021	<0.018	NA	<0.018	<0.018	NS	NS
2-Methylnaphthalene	µg/L	0.032 "J"	<0.024	NA	NA	NA	NA		<0.024	<0.024	<0.017	NA	NA	NA		0.062 "J"	<0.024	<0.017	NA	<0.017	<0.017	NS	NS
Naphthalene	µg/L	0.028 "J"	<0.023	NA	NA	NA	NA		<0.023	<0.023	<0.018	NA	NA	NA		0.026 "J"	<0.023	<0.018	NA	<0.018	<0.018	100	10
Phenanthrene	µg/L	0.02 "J"	<0.018	NA	NA	NA	NA		<0.018	<0.018	<0.017	NA	NA	NA		0.019 "J"	0.04 "J"	<0.017	NA	0.0231 "J"	0.035 "J"	NS	NS
Pyrene	µg/L	<0.022	<0.022	NA	NA	NA	NA		<0.022	<0.022	<0.018	NA	NA	NA		<0.022	0.071 "J"	0.029 "J"	NA	0.036 "J"	0.049 "J"	250	50
Dissolved Metals																							
Arsenic	µg/L	<6.5	<6.5	NA	NA	NA	NA		<6.5	<6.5	NA	NA	NA	NA		<6.5	<6.5	NA	NA	NA	NA	10	1
Barium	µg/L	220	180	NA	NA	NA	NA		120	74	NA	NA	NA	NA		210	150	NA	NA	NA	NA	2,000	400
Cadmium	µg/L	<0.7	<0.7	NA	NA	NA	NA		<0.7	<0.7	NA	NA	NA	NA		<0.7	<0.7	NA	NA	NA	NA	5	0.5
Chromium	µg/L	<1.4	<1.4	NA	NA	NA	NA		<1.4	<1.4	NA	NA	NA	NA		<1.4	<1.4	NA	NA	NA	NA	100	10
Lead	µg/L	<1.9	<1.9	NA	NA	NA	NA		<1.9	<1.9	NA	NA	NA	NA		2.0 "J" **	<1.9	NA	NA	NA	NA	15	1.5
Mercury	µg/L	<0.049	<0.049	NA	NA	NA	NA		<0.049	<0.049	NA	NA	NA	NA		<0.049	<0.049	NA	NA	NA	NA	2	0.2
Selenium	µg/L	<7.4	<7.4	NA	NA	NA	NA		<7.4	<7.4	NA	NA	NA	NA		<7.4	<7.4	NA	NA	NA	NA	50	10
Silver	µg/L	<2.8	3.8 "J"	NA	NA	NA	NA		<2.8	5.3 "J"	NA	NA	NA	NA		<2.8	3.1 "J"	NA	NA	NA	NA	50	10

Notes:
1. NR 140 ES = Wisconsin Administrative Code, Chapter NR 140 Enforcement Standard
2. NR 140 PAL = Wisconsin Administrative Code, Chapter NR 140 Preventive Action Limit
3. NS = no standard
4. µg/L = micrograms per liter (equivalent to parts per billion, ppb)
5. mg/L = milligrams per liter (equivalent to parts per million, ppm)
6. NA = Not Analyzed
7. ND = not detected (laboratory detection limits not listed in previous consultants' data tables)
8. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation.
9. Equipment blank results: Aug 2014: All VOCs reported below laboratory detection limits, except for chloromethane (1.29 "J" µg/L). Chloromethane was not detected in any of the groundwater samples during this event.
Oct 2014: Not used.
4/21/2015 & 4/22/2015: All VOCs reported below laboratory detection limits
10/1/2015 & 10/2/2015: All VOCs reported below laboratory detection limits, except chloroform (1.04 "J" µg/L in Equip Blank #1 and 0.97 "J" µg/L in Equip Blank #2). Chloroform was not detected in any of the groundwater samples during
2/4/16 & 2/5/16: All VOCs reported below laboratory detection limits
10. Trip blank results: Aug 2014: All VOCs reported below laboratory detection limits.
Oct 2014: All VOCs reported below laboratory detection limits.
4/21/2015 & 4/22/2015: All VOCs reported below laboratory detection limits
10/1/2015 & 10/2/2015: All VOCs reported below laboratory detection limits
2/4/16 & 2/5/16: All VOCs reported below laboratory detection limits
11. Exceedances: **BOLD** = Concentration exceeds NR 140 ES
ITALICS = Concentration exceeds NR 140 PAL
12. Special notes: **FP** = Petroleum Free Product on water table (water sample collected beneath with peristaltic pump)
** = not a statistically valid PAL exceedance per NR 140.14(3)(c)
*** = monitoring well screen submerged below water table

Table 3
Soil Analytical Data
Freshwater Plaza Lot 4 - 200 E. Greenfield Avenue, Milwaukee, Wisconsin
Sigma Project No. 14160

		Site Investigation Soil Borings																						
Soil Sample Location:		STS-16			B-5	P-1	P-2	P-3	P-4	P-5	MW-1		MW-6R		T-5	SGP-7		SGP-8		SGP-9		Groundwater Pathway RCL [4]	Non-Industrial Direct Contact RCL [5]	Industrial Direct Contact RCL [6]	Background Threshold Value [7]
Sample Depth (feet bgs):		5 - 6.5	17.5 - 19	14 - 16	---	0 - 5	0 - 4	0 - 11	0 - 8	0 - 8	2 - 4	6 - 8	2 - 4	6 - 8	---	2 - 4	6 - 8	2 - 4	6 - 8	2 - 4	6 - 8				
Sample Collection Date:		4/8/92			9/14/04	9/14/04	9/14/04	9/14/04	9/14/04	9/14/04	3/17/05		3/7/07		12/21/12	3/17/14		3/17/14		3/17/14					
Depth to Groundwater (feet bgs):		6.5+/-			10+/-	>5	10+/-	>11	>8	>8	9.5+/-		7.5+/-		---	7.8 +/-		8.3 +/-		8.7 +/-					
Unsaturated/Smear Zone (U) or Saturated (S):		U	S	S	---	U	U	U	U	U	U	U	U	U	---	U	U	U	U	U	U				
Organic Vapor Monitor	ppm	<1	<1	2	---	<5	<5	<5	<5	<5	<5	<5	---	---	---	0	2	0	20	0	0	NS	NS	NS	NS
PVOCs & Detected VOCs																									
Benzene	mg/kg	<0.0031	<0.0031	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.0092	**0.043**	<0.0092	**0.0267 "J"**	<0.0092	**0.021 "J"**	0.0051	1.6	7.07	NS
tert-Butylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<25	NA	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	NS	183	183	NS
sec-Butylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	NS	145	145	NS
n-Butylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	0.0266	<0.025	<0.040	<0.040	NA	<0.026	0.057 "J"	<0.026	0.047 "J"	<0.026	0.058 "J"	NS	108	108	NS
1,2-Dichlorobenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	1.168	376	376	NS
Ethylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	0.147	<0.025	<0.025	0.056 "J"	NA	<0.010	0.122	<0.010	0.051	<0.010	0.0133 "J"	1.57	8.02	35.4	NS
Isopropylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.025	0.034 "J"	<0.025	<0.025	<0.025	<0.025	NS	NS	NS	NS
p-Isopropyltoluene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	NS	162	162	NS
Methylene chloride	mg/kg	<0.0076	**0.0087**	NA	NA	NA	NA	NA	NA	NA	<0.100	<0.100	<0.025	<0.025	NA	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	0.0026	61.8	1,150	NS
Methyl-tert-butyl-ether	mg/kg	<0.031	<0.031	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	0.027	63.8	282	NS
Naphthalene	mg/kg	0.0367	<0.015	NA	NA	NA	NA	NA	NA	NA	0.282	0.210	<0.025	0.055 "J"	NA	<0.114	0.219 "J"	<0.114	<0.114	<0.114	<0.114	0.6582	5.52	24.1	NS
n-Propylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	0.101	0.0556	<0.025	<0.025	NA	<0.024	0.055 "J"	<0.024	0.039 "J"	<0.024	<0.024	NS	264	264	NS
1,1,2,2-Tetrachloroethane	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	0.0002	0.81	3.6	NS
1,1,1,2-Tetrachloroethane	mg/kg	<0.0076	<0.0076	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.0534	2.78	12.3	NS
Tetrachloroethene (PCE)	mg/kg	<0.0076	<0.0076	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	0.0045	33	145	NS
Toluene	mg/kg	<0.015	0.0163	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	0.041 "J"	NA	<0.020	0.305	<0.020	0.073	<0.020	0.046 "J"	1.1072	818	818	NS
1,2,4-Trichlorobenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	0.408	24	113	NS
1,2,3-Trichlorobenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	NS	62.6	934	NS
1,1,1-Trichloroethane	mg/kg	<0.0076	<0.0076	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	0.1402	640	640	NS
1,1,2-Trichloroethane	mg/kg	<0.0076	<0.0076	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.0032	1.59	7.01	NS
Trichloroethene (TCE)	mg/kg	<0.0031	<0.0031	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	0.0036	1.3	8.41	NS
Trichlorofluoromethane	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	<0.025	<0.025	<0.025	<0.025	NA	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	NS	1,230	1,230	NS
1,2,4-Trimethylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	0.149	0.0299	<0.025	0.051 "J"	NA	<0.026	0.320	<0.026	0.033 "J"	<0.026	0.041 "J"	1.3787	219	219	NS
1,3,5-Trimethylbenzene	mg/kg	<0.015	<0.015	NA	NA	NA	NA	NA	NA	NA	0.0371	<0.025	<0.025	<0.025	NA	<0.026	0.155	<0.026	<0.026	<0.026	0.048 "J"		182	182	NS
Xylenes (total)	mg/kg	<0.015	0.0163	NA	NA	NA	NA	NA	NA	NA	0.421	0.0771	<0.075	0.154 "J"	NA	<0.099	0.779	<0.099	0.036 "J"	<0.099	<0.099	3.96	260	260	NS
PAHs																									
Acenaphthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	<0.0031	0.0057 "J"	NA	<0.0211	<0.0211	<0.0211	<0.0211	<0.0211	0.034 "J"	NS	3,590	45,200	NS
Acenaphthylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.232	<0.239	<0.0030	0.0036 "J"	NA	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	NS	NS	NS	NS
Anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	<0.0037	0.017	NA	<0.0185	0.036 "J"	<0.0185	0.055 "J"	<0.0185	0.093	196.9492	17,900	100,000	NS
Benzo(a)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0579	<0.0598	<0.0055	0.029	NA	0.0205 "J"	0.066	<0.0184	0.061	0.0186 "J"	0.139	NS	1.14	20.8	NS
Benzo(a)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0511	0.0661	0.0033 "J"	0.024	NA	<0.019	0.041 "J"	<0.019	0.030 "J"	<0.019	0.096	0.47	0.115	2.11	NS
Benzo(b)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0579	<0.0598	0.0076 "J"	0.020	NA	<0.018	0.066	<0.018	0.038 "J"	<0.018	0.144	0.4781	1.15	21.1	NS
Benzo(ghi)perylene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	0.0042 "J"	0.015	NA	<0.023	0.0253 "J"	<0.023	<0.023	<0.023	0.055 "J"	NS	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	0.0043 "J"	0.019	NA	<0.0206	0.0233 "J"	<0.0206	<0.0206	<0.0206	0.048 "J"	NS	11.5	211	NS
Chrysene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	0.0059 "J"	0.029	NA	<0.0185	0.063	<0.0185	0.050 "J"	<0.0185	**0.148**	0.1442	115	2,110	NS
Dibenzo(a,h)anthracene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.00579	<0.00598	<0.0028	0.0042 "J"	NA	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	<0.0224	NS	0.115	2.11	NS
Fluoranthene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	0.180	0.0066 "J"	0.056	NA	0.0291 "J"	0.107	<0.0181	0.105	0.0193 "J"	0.246	88.8778	2,390	30,100	NS
Fluorene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	<0.0035	0.0047 "J"	NA	<0.020	<0.020	<0.020	<0.020	<0.020	0.035 "J"	14.8299	2,390	30,100	NS
Indeno(1,2,3-cd)pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0803	0.0903	0.0032 "J"	0.012	NA	<0.0244	<0.0244	<0.0244	<0.0244	<0.0244	0.049 "J"	NS	1.15	21.1	NS
1-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	0.0070	0.086	NA	0.0283 "J"	0.206	<0.0195	0.120	<0.0195	0.177	NS	17.6	72.7	NS
2-Methylnaphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	<0.0032	0.110	NA	0.0257 "J"	0.256	<0.0204	0.145	<0.0204	0.184	NS	239	3,010	NS
Naphthalene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	<0.0041	0.060	NA	<0.021.1	0.160	<0.0211	0.058 "J"	<0.0211	0.096	0.6582	5.52	24.1	NS
Phenanthrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	0.0045 "J"	0.093	NA	0.087	0.210	<0.0247	0.320	<0.0247	0.570	NS	NS	NS	NS
Pyrene	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.116	<0.120	0.0050 "J"	0.052	NA	0.0314 "J"	0.112	<0.020	0.133	<0.020	0.256	54.5455	1,790	22,600	NS
RCRA Metals																									
Arsenic	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.90	<2.99	0.98 "J" *	3.2 "J" *	NA	<1.44	**{ [10.3] }**	<1.44	**{ [20.7] }**	<3.6	3.83 "J" *	0.584	0.677	3	8
Barium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	29.3	<29.9	6.4	50	NA	21.3	86.7	7.39	54.5	11.5	45.0	164.8	15,300	100,000	364
Cadmium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.579	<0.598	<0.052	0.40	NA	<0.16	**1.19**	<0.16	<0.4	<0.16	<0.4	0.752	71.1	985	1
Chromium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.49	5.15	4.2	8.8	NA	7.76	12.9	4.08	16.9	5.02	8.83	360,000	NS	NS	44
Lead	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	35.0 *	**59.2**	1.8	30 *	NA	2.95	**91.5**	1.71 "J"	**199**	2.02	**53.8**	27	400	800	52
Mercury	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0727	0.108	0.0051 "J"	0.034	NA	<0.0031	0.093	<0.0031	0.089	0.005 "J"	0.063	0.208	3.13	3.13	NS
Selenium	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.90	<2.99	<0.84	<0.97	NA	<1.4	<1.4	<1.4	<3.5	<1.4	<1.4	0.52	391	5,840	NS
Silver	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	<2.90	<2.99	<0.25	<0.29	NA	<0.68	<0.68	<0.68	<1.7	<0.68	<0.68	0.8491	391	5,840	NS
PCBs																									
PCB-1016	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	4.11	28	NS
PCB-1221	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	0.213	0.883	NS
PCB-1232	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	0.19	0.792	NS
PCB-1242	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	0.235	0.972	NS
PCB-1248	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	0.236	0.975	NS
PCB-1254	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	0.239	0.988	NS
PCB-1260	mg/kg	NA	NA	NA	NA	<0.0493	<0.0537		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0094	0.243	1	NS
Cumulative DC RCL Exceeded (Y/N)?		No	No	---	---	No	No	No	---	---	No	No	No	No	---	No	**YES**	No	**YES**	No	No	---	---	---	---

Notes:
1. Unsaturated/smear zone versus satured soil conditions based on: (1) soil moisture conditions recorded on soil boring logs, and/or (2) measured water levels in adjacent/nearby temporary wells and/or monitoring wells.
2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
3. NA = not analyzed
4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated December 2017) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2017) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2017) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
7. Background Threshold Value = Non-outlier trace element maximum levels in Wisconsin surface soils from USGS report "Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements" (revised February 2013).
8. NS = no standard established
9. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
10. Exceedances:
   BOLD = Concentration exceeds Groundwater Pathway RCL
   [ ] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
   { } = Concentration exceeds Industrial Direct Contact RCL (any depth)
   * = Concentration exceeds is below Background Threshold Value so RCL exceedances are not marked

Table 3
Soil Analytical Data
Freshwater Plaza Lot 4 - 200 E. Greenfield Avenue, Milwaukee, Wisconsin
Sigma Project No. 14160

Environmental Concern:		Site Investigation Soil Borings													Lot 1 Soil Stockpiled & Spread on Lot 4											
Soil Sample Location:		SGP-10		SGP-11		SGP-12	SGP-13		SMW-12		SMW-15		SMW-20		SB01-01	SMW-21	Grab 1	Grab 2	Grab 3	Grab 4	Grab 5	Grab 6	Groundwater Pathway RCL [4]	Non-Industrial Direct Contact RCL [5]	Industrial Direct Contact RCL [6]	Background Threshold Value [7]
Sample Depth (feet bgs):		2 - 4	6 - 8	2 - 4	8 - 10	2 - 4	0 - 2	4 - 6	2 - 4	6 - 8	2 - 4	6 - 8	2 - 4	4 - 6	0 - 2	1 - 3	stockpile	stockpile	stockpile	stockpile	stockpile	stockpile				
Sample Collection Date:		3/17/14		3/18/14		3/18/14	3/18/14		8/7/14		8/7/14		8/7/14		8/13/01	10/9/14	3/22/16	3/22/16	3/22/16	3/22/16	3/22/16	3/22/16				
Depth to Groundwater (feet bgs):		7.5 +/-		8.5 +/-		7.5 +/-	7.5 +/-		7.9		8.7		6.2		7 - 10+/-	9.4	---	---	---	---	---	---				
Unsaturated/Smear Zone (U) or Saturated (S):		U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U	U				
Organic Vapor Monitor	ppm	0	18	0	1	12	46	48	0.1	0.2	0.2	0.3	0.2	2.4	1.3	0.1	0	0	0	0	0	0	NS	NS	NS	NS
PVOCs & Detected VOCs																										
Benzene	mg/kg	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	<0.0092	**0.231**	<0.0092	<0.0092	<0.0092	<0.0092	NA	<0.0092	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	0.0051	1.6	7.07	NS
tert-Butylbenzene	mg/kg	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	NA	<0.020	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	NS	183	183	NS
sec-Butylbenzene	mg/kg	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	<0.041	0.043 "J"	<0.041	<0.041	<0.041	<0.041	NA	<0.041	<0.036	<0.036	<0.036	<0.036	<0.036	<0.036	NS	145	145	NS
n-Butylbenzene	mg/kg	<0.026	<0.026	<0.026	<0.026	<0.026	0.063 "J"	0.0269 "J"	<0.026	0.147	<0.026	<0.026	<0.026	<0.026	NA	<0.026	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	NS	108	108	NS
1,2-Dichlorobenzene	mg/kg	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	NA	<0.038	<0.039	<0.039	<0.039	<0.039	<0.039	<0.039	1.168	376	376	NS
Ethylbenzene	mg/kg	<0.010	<0.010	<0.010	0.0114 "J"	<0.010	0.0125 "J"	<0.010	<0.010	0.630	<0.010	0.0156 "J"	<0.010	<0.010	NA	<0.010	<0.027	<0.027	<0.027	<0.027	<0.027	<0.027	1.57	8.02	35.4	NS
Isopropylbenzene	mg/kg	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.077 "J"	<0.025	<0.025	<0.025	<0.025	NA	<0.025	<0.037	<0.037	<0.037	<0.037	<0.037	<0.037	NS	NS	NS	NS
p-Isopropyltoluene	mg/kg	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	0.034 "J"	<0.031	<0.031	<0.031	<0.031	NA	<0.031	<0.056	<0.056	<0.056	<0.056	0.279	<0.056	NS	162	162	NS
Methylene chloride	mg/kg	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.057	<0.221	<0.221	<0.221	<0.221	<0.221	<0.221	NA	<0.221	<0.220	<0.220	<0.220	<0.220	<0.220	<0.220	0.0026	61.8	1,150	NS
Methyl-tert-butyl-ether	mg/kg	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	NA	<0.030	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.027	63.8	282	NS
Naphthalene	mg/kg	<0.114	<0.114	<0.114	<0.114	<0.114	<0.114	<0.114	<0.114	0.233 "J"	<0.114	<0.114	<0.114	<0.114	NA	<0.114	0.193 "J"	0.188 "J"	0.112 "J"	<0.087	<0.087	0.160 "J"	0.6582	5.52	24.1	NS
n-Propylbenzene	mg/kg	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	0.232	<0.024	<0.024	<0.024	<0.024	NA	<0.024	<0.035	<0.035	<0.035	<0.035	<0.035	<0.035	NS	264	264	NS
1,1,2,2-Tetrachloroethane	mg/kg	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	<0.012	NA	<0.012	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.0002	0.81	3.6	NS
1,1,1,2-Tetrachloroethane	mg/kg	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	NA	<0.023	<0.029	<0.029	<0.029	<0.029	<0.029	<0.029	0.0534	2.78	12.3	NS
Tetrachloroethene (PCE)	mg/kg	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	NA	<0.049	<0.054	<0.054	<0.054	<0.054	<0.054	<0.054	0.0045	33	145	NS
Toluene	mg/kg	0.0207 "J"	<0.020	<0.020	<0.020	<0.020	0.0312 "J"	<0.020	<0.020	0.850	<0.020	0.035 "J"	0.0303 "J"	<0.020	NA	0.036 "J"	0.037 "J"	0.044 "J"	<0.031	<0.031	0.041 "J"	<0.031	1.1072	818	818	NS
1,2,4-Trichlorobenzene	mg/kg	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	<0.079	NA	<0.079	<0.085	<0.085	<0.085	<0.085	<0.085	<0.085	0.408	24	113	NS
1,2,3-Trichlorobenzene	mg/kg	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	<0.129	NA	<0.129	<0.120	<0.120	<0.120	<0.120	<0.120	<0.120	NS	62.6	934	NS
1,1,1-Trichloroethane	mg/kg	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	<0.038	NA	<0.038	<0.040	<0.040	<0.040	<0.040	<0.040	<0.040	0.1402	640	640	NS
1,1,2-Trichloroethane	mg/kg	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	NA	<0.023	<0.033	<0.033	<0.033	<0.033	<0.033	<0.033	0.0032	1.59	7.01	NS
Trichloroethene (TCE)	mg/kg	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	NA	<0.028	<0.042	<0.042	<0.042	<0.042	<0.042	<0.042	0.0036	1.3	8.41	NS
Trichlorofluoromethane	mg/kg	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	<0.086	NA	<0.086	<0.060	<0.060	<0.060	<0.060	<0.060	<0.060	NS	1,230	1,230	NS
1,2,4-Trimethylbenzene	mg/kg	<0.026	<0.026	<0.026	<0.026	0.0279 "J"	0.099	0.036 "J"	<0.026	0.820	<0.026	0.055 "J"	0.041 "J"	<0.026	NA	<0.026	<0.078	<0.078	<0.078	<0.078	<0.078	<0.078	1.3787	219	219	NS
1,3,5-Trimethylbenzene	mg/kg	<0.026	<0.026	<0.026	<0.026	<0.026	0.061 "J"	<0.026	<0.026	0.420	<0.026	<0.026	<0.026	<0.026	NA	<0.026	<0.089	<0.089	<0.089	<0.089	<0.089	<0.089		182	182	NS
Xylenes (total)	mg/kg	<0.099	<0.099	<0.099	<0.099	<0.099	0.062 "J"	<0.099	<0.089	1.49	<0.099	0.043 "J"	0.038 "J"	<0.099	NA	<0.099	0.042 "J"	0.174 "J"	0.066 "J"	0.128 "J"	0.036 "J"	<0.099	3.96	260	260	NS
PAHs																										
Acenaphthene	mg/kg	<0.0211	<0.0211	<0.0211	0.084	<0.0211	0.0288 "J"	<0.0211	<0.0211	0.035 "J"	<0.0211	0.040 "J"	0.033 "J"	<0.0211	0.280 "J"	NA	0.189	0.380	0.104	0.231	0.155	0.239	NS	3,590	45,200	NS
Acenaphthylene	mg/kg	<0.0195	<0.0195	<0.0195	0.032 "J"	<0.0195	0.124	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	<0.0195	0.170 "J"	NA	0.160	0.169	0.091	0.164	0.098	0.129	NS	NS	NS	NS
Anthracene	mg/kg	0.0185 "J"	0.028 "J"	0.063	0.285	0.021 "J"	0.096	0.051 "J"	<0.0185	0.144	0.0314 "J"	0.154	0.123	0.057 "J"	0.910	NA	0.800	1.230	0.410	0.930	0.560	0.940	196.9492	17,900	100,000	NS
Benzo(a)anthracene	mg/kg	0.127	0.063	0.500	0.550	0.097	0.490	0.610	0.065	0.267	0.122	0.306	0.490	0.173	[3.800]	NA	<0.0174	<0.0174	<0.0174	[3.600]	[2.350]	[2.760]	NS	1.14	20.8	NS
Benzo(a)pyrene	mg/kg	[0.116]	0.035 "J"	**[0.510]**	**[0.470]**	0.088	**[0.540]**	**[0.560]**	[0.067]	[0.246]	[0.142]	[0.281]	**[0.560]**	[0.156]	**{ [4.300] }**	NA	**{ [2.350] }**	**{ [2.970] }**	**[1.470]**	**{ [3.030] }**	**[1.920]**	**{ [2.150] }**	0.47	0.115	2.11	NS
Benzo(b)fluoranthene	mg/kg	0.190	0.071	**0.950**	**0.650**	0.139	**0.790**	**0.890**	0.116	0.380	0.211	0.440	**0.890**	0.235	**[7.800]**	NA	**[3.800]**	**[4.600]**	**[2.310]**	**[4.600]**	**[3.100]**	**[3.060]**	0.4781	1.15	21.1	NS
Benzo(ghi)perylene	mg/kg	0.090	0.0252 "J"	0.510	0.350	0.086	0.410	0.430	0.049 "J"	0.115	0.085	0.147	0.330	0.071 "J"	<0.100	NA	1.790	2.010	1.020	1.990	1.250	1.260	NS	NS	NS	NS
Benzo(k)fluoranthene	mg/kg	0.073	0.0223 "J"	0.320	0.219	0.068	0.262	0.330	0.032 "J"	0.109	0.059 "J"	0.132	0.390	0.110	<0.370	NA	1.160	1.530	0.770	1.790	1.040	1.100	NS	11.5	211	NS
Chrysene	mg/kg	0.134	0.075	**0.540**	**0.480**	0.096	**0.520**	**0.770**	0.078	**0.295**	**0.155**	**0.360**	**0.620**	**0.207**	**5.200**	NA	**2.030**	**2.580**	**1.290**	**2.480**	**1.620**	**1.800**	0.1442	115	2,110	NS
Dibenzo(a,h)anthracene	mg/kg	<0.0224	<0.0224	[0.136]	0.086	<0.0224	[0.126]	[0.119]	<0.0224	0.032 "J"	<0.0224	0.035 "J"	0.074	<0.0224	[1.500]	NA	[0.390]	[0.440]	[0.233]	[0.480]	[0.300]	[0.320]	NS	0.115	2.11	NS
Fluoranthene	mg/kg	0.203	0.137	0.680	1.040	0.138	0.610	1.000	0.143	0.520	0.320	0.880	1.230	0.450	8.000	NA	4.700	7.000	2.870	5.900	3.600	4.400	88.8778	2,390	30,100	NS
Fluorene	mg/kg	<0.020	0.0206 "J"	<0.020	0.110	<0.020	0.061 "J"	<0.020	<0.020	0.037 "J"	<0.020	0.053 "J"	0.0267 "J"	<0.020	0.370	NA	0.160	0.292	0.093	0.208	0.126	0.410	14.8299	2,390	30,100	NS
Indeno(1,2,3-cd)pyrene	mg/kg	0.081	<0.0244	0.450	0.312	0.072 "J"	0.380	0.380	0.040 "J"	0.110	0.077 "J"	0.127	0.293	0.062 "J"	[2.500]	NA	[1.540]	[1.750]	0.860	[1.790]	[1.190]	[1.150]	NS	1.15	21.1	NS
1-Methylnaphthalene	mg/kg	0.0238 "J"	0.112	<0.0195	0.071	<0.0195	0.141	<0.0195	<0.0195	0.315	<0.0195	0.090	0.055 "J"	<0.0195	0.190 "J"	NA	0.099	0.141	0.076	0.107	0.114	0.248	NS	17.6	72.7	NS
2-Methylnaphthalene	mg/kg	0.0228 "J"	0.125	<0.0204	0.067	<0.0204	0.128	<0.0204	<0.0204	0.400	<0.0204	0.090	0.038 "J"	0.0229 "J"	0.170 "J"	NA	0.126	0.161	0.123	0.139	0.116	0.226	NS	239	3,010	NS
Naphthalene	mg/kg	<0.0211	0.073	<0.0211	0.044 "J"	<0.0211	0.058 "J"	0.0299 "J"	<0.0211	0.294	<0.0211	0.092	0.032 "J"	<0.0211	0.280 "J"	NA	0.117	0.162	0.097	0.132	0.095	0.490	0.6582	5.52	24.1	NS
Phenanthrene	mg/kg	0.093	0.162	0.234	0.800	0.070 "J"	0.314	0.252	0.058 "J"	0.650	0.180	0.850	0.760	0.302	4.100	NA	2.090	3.700	1.340	2.670	1.580	2.340	NS	NS	NS	NS
Pyrene	mg/kg	0.179	0.122	0.560	0.900	0.119	0.580	0.770	0.124	0.460	0.262	0.700	1.010	0.430	6.300	NA	4.100	6.000	2.570	5.200	3.200	4.100	54.5455	1,790	22,600	NS
RCRA Metals																										
Arsenic	mg/kg	<1.44	<1.44	<1.44	<1.44	<1.44	<1.44	<1.44	<0.65	4.2 *	1.2 "J" *	2.1 *	3.8 *	5.0 *	NA	NA	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	0.584	0.677	3	8
Barium	mg/kg	18.4	11.9	9.37	16.7	28.7	35.2	13.6	18	98	44	34	33	**840**	NA	NA	60.4	81.5	62.5	46.8	47.9	199 *	164.8	15,300	100,000	364
Cadmium	mg/kg	<0.16	**1.03**	<0.16	<0.16	<0.16	0.20 "J"	<0.16	<0.07	**1.1**	0.12 "J"	0.57	0.30 "J"	0.94 *	NA	NA	<0.08	0.388	<0.08	<0.08	<0.08	<0.08	0.752	71.1	985	1
Chromium	mg/kg	4.77	6.30	3.78	7.54	149	9.60	6.78	7.5	12	7.9	7.9	9.5	11	NA	NA	219	108	52.1	48.2	48.0	91.9	360,000	NS	NS	44
Lead	mg/kg	**59.6**	9.69	6.67	20.5	18.0	47.6 *	4.67	9.1	**130**	**72**	**52**	**61**	**330**	NA	38.6 *	**295**	**357**	**211**	**167**	**186**	**[596]**	27	400	800	52
Mercury	mg/kg	0.065	0.026	0.029	0.048	0.020	0.082	0.156	0.027	0.034	0.12	0.052	0.074	0.047	NA	NA	**0.5807**	**0.500**	**0.3597**	**0.4228**	**0.3347**	**0.5012**	0.208	3.13	3.13	NS
Selenium	mg/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	**0.92 "J"**	**2.8**	**0.89 "J"**	**1.9 "J"**	**1.2 "J"**	**1.4 "J"**	NA	NA	<0.55	<0.55	<0.55	<0.55	<0.55	<0.55	0.52	391	5,840	NS
Silver	mg/kg	<0.68	<0.68	<0.68	<0.68	**6.58**	<0.68	<0.68	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	NA	NA	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	0.8491	391	5,840	NS
PCBs																										
PCB-1016	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	<0.0035	0.0094	4.11	28	NS
PCB-1221	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	<0.0054	0.0094	0.213	0.883	NS
PCB-1232	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	0.0094	0.19	0.792	NS
PCB-1242	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**[0.650]**	**[0.827]**	**[0.336]**	**[0.385]**	**{ [2.010] }**	<0.0032	0.0094	0.235	0.972	NS
PCB-1248	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	0.0094	0.236	0.975	NS
PCB-1254	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**[0.468]**	**[0.772]**	**0.1290**	**0.2010**	**[0.439]**	**0.0510**	0.0094	0.239	0.988	NS
PCB-1260	mg/kg	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	0.0094	0.243	1	NS
Cumulative DC RCL Exceeded (Y/N)?		**YES**	No	**YES**	**YES**	No	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	No	**YES**	**YES**	**YES**	**YES**	**YES**	**YES**	---	---	---	---

Notes:
1. Unsaturated/smear zone versus satured soil conditions based on: (1) soil moisture conditions recorded on soil boring logs, and/or (2) measured water levels in adjacent/nearby temporary wells and/or monitoring wells.
2. Analytical units: mg/kg = milligrams per kilogram (equivalent to parts per million, ppm)
3. NA = not analyzed
4. Groundwater Pathway RCL = Residual Contaminant Level for protection of groundwater (dilution factor of 2) as presented on the WDNR's RCL Spreadsheet (dated December 2017) referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
5. Non-Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at a non-industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2017) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
6. Industrial Direct Contact RCL = Residual Contaminant Level for protection of direct contact at an industrial property as presented on the WDNR's RCL Spreadsheet (dated December 2017) with default input parameters as referenced in WDNR guidance document PUB-RR-890 "Soil Residual Contaminant Level Determinations Using the US EPA Regional Screening Level Web Calculator", dated June 2014
7. Background Threshold Value = Non-outlier trace element maximum levels in Wisconsin surface soils from USGS report "Distribution and Variation of Arsenic in Wisconsin Surface Soils, With Data on Other Trace Elements" (revised February 2013).
8. NS = no standard established
9. Laboratory flags: "J" = Analyte detected between Limit of Detection and Limit of Quantitation
10. Exceedances:
   BOLD = Concentration exceeds Groundwater Pathway RCL
   [ ] = Concentration exceeds Non-Industrial Direct Contact RCL (any depth)
   { } = Concentration exceeds Industrial Direct Contact RCL (any depth)
   * = Concentration exceeds is below Background Threshold Value so RCL exceedances are not marked

GROCERY STORE
(42,310 SQ.FT.)

CSM LOT 1

CSM LOT 4

SMW-12
(ABANDONED)

FORMER RAIL LINES

FORMER BUILDING

FORMER METAL BUILDING

STS-16
(ABANDONED)

SGP-58

GS-4

SGP-7

SGP-8

SGP-9

SGP-10

SGP-11

SGP-12

SGP-13

SGP-14

SMW-13

SMW-15
(BURIED)

SMW-19
(ABANDONED)

SMW-20

SVP-7
(BURIED)

SVP-9
(ABANDONED)

SVP-10
(ABANDONED)

MW-4
(ABANDONED)

MW-5R
(LOST)

MW-6
(ABANDONED)

MW-6R
(LOST)

MW-2
(ABANDONED)

MW-1
(LOST)

B-10

B-12

B-4

B-3

B-2

B-5 &
P-2

P-1

P-3

P-4

P-5

T-5

PROPOSED 41' CITY SEWER EASEMENT

APPROX. LOCATION OF FORMER
2,000 CY SOIL STOCKPILE FROM LOT 1

GRAB 1

GRAB 2

GRAB 3

GRAB 4

GRAB 5

GRAB 6

PARCEL 3
C.S.M. #7114
PARCEL 2
#200-230 E. GREENFIELD

FORMER RAIL SPUR

VACATED S. BARCLAY STREET (76')

CSM LOT 3

CSM LOT 4

(29) 24' steam ease. Doc. 10295245

(29) 10' steam ease. Doc. 10295245

STEAM EASEMENT DOC. 4

WEPCO VAULT

EAST GREENFIELD AVENUE

(66' R/W)

SOUTH LINE OF SE ¼ SEC. 32-7

idewalk not yet completely constructed

concrete curb & gutter (new)

concrete pavement

gravel

asphalt 6' path

chainlink fence

ENVIRONMENTAL KEY

- = SOIL BORING
- = MONITORING WELL (FORMER)
- = TEST PIT
- = GEOPROBE SOIL BORING
- = TEMPORARY WELL
- = HSA SOIL BORING
- = MONITORING WELL
- = VAPOR PROBE
- X = GRAB SOIL SAMPLE (APPROX.)

N

0 40 ft. 80 ft.

APPROXIMATE GRAPHIC SCALE

THE SIGMA GROUP
Single Source. Sound Solutions.

LOT 4 SITE PLAN MAP

FRESHWATER PLAZA LOT 4
200 E. GREENFIELD AVENUE, MILWAUKEE, WISCONSIN

FIGURE

1

Project: 14160 | Directory: 090 REPORTS | Filename: 14160Fig1SitePlanMap 12.2.15 from CAD AI edits.pdf | Created By: AJR/ SLO | Date: 2/20/2018

ATTACHMENT 1

GROUNDWATER LABORATORY ANALYTICAL REPORT

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

Results for Freshwater Plaza Lot 4 wells SMW-12, SMW-15, and SMW-20 at end of laboratory analytical report and outlined with boxes.

ADAM RODER
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date *19-Feb-16*

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452A
Sample ID MW-10
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452A
Sample ID MW-10
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	102	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452B
Sample ID MW-10P
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	0.043 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	0.043 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	0.080	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	0.048 "J"	ug/l	0.024	0.078	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	0.036 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	0.045 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	0.072	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.038 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
2-Methyl naphthalene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Phenanthrene	0.027 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	0.063	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452B
Sample ID MW-10P
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452C
Sample ID SMW-11
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Barium, Dissolved	161	ug/L	4	12.7	1	200.7		2/16/2016	CWT	1
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452C
Sample ID SMW-11
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452D
Sample ID STW-34
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	105	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	106	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452E
Sample ID SMW-3
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	2.83	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	2.04	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	0.29 "J"	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	104	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	94	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452F
Sample ID SMW-7
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	2.45 "J"	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	0.86 "J"	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	98	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	110	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452G
Sample ID SMW-8
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	22.8	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	5.4	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	1.16 "J"	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	17.5	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	8.7	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	0.44 "J"	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	0.67 "J"	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	110	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	99	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452H
Sample ID SMW-9
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	1.61	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	1.38 "J"	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	2.23 "J"	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	7.5	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	4.0	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	0.99 "J"	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	98	REC %			1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	114	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452I
Sample ID SMW-10C
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	98	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452J
Sample ID SMW-14
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.109	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	0.132	ug/l	0.021	0.068	1	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	0.43	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	0.95	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	0.92	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	1.45	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	0.90	ug/l	0.024	0.078	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	0.52	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	0.90	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	0.192	ug/l	0.025	0.081	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	1.66	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	0.141	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.68	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	0.027 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
2-Methyl naphthalene	0.021 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Naphthalene	0.050 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Phenanthrene	0.58	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	1.64	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452J
Sample ID SMW-14
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	95	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452K
Sample ID SMW-22
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	27.4	ug/l	1	3.2	50	M8270C	2/9/2016	2/11/2016	MDK	1
Acenaphthylene	12.6	ug/l	1.05	3.4	50	M8270C	2/9/2016	2/11/2016	MDK	1
Anthracene	59	ug/l	1	3.2	50	M8270C	2/9/2016	2/11/2016	MDK	1
Benzo(a)anthracene	37	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/11/2016	MDK	1
Benzo(a)pyrene	15.7	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/11/2016	MDK	1
Benzo(b)fluoranthene	16	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/11/2016	MDK	1
Benzo(g,h,i)perylene	6.9	ug/l	1.2	3.9	50	M8270C	2/9/2016	2/11/2016	MDK	1
Benzo(k)fluoranthene	5.9	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/11/2016	MDK	1
Chrysene	37	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/11/2016	MDK	1
Dibenzo(a,h)anthracene	2.67 "J"	ug/l	1.25	4.05	50	M8270C	2/9/2016	2/11/2016	MDK	1
Fluoranthene	43	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/11/2016	MDK	1
Fluorene	43	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/11/2016	MDK	1
Indeno(1,2,3-cd)pyrene	4.2	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/11/2016	MDK	1
1-Methyl naphthalene	99	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/11/2016	MDK	1
2-Methyl naphthalene	18.6	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/11/2016	MDK	1
Naphthalene	5.8	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/11/2016	MDK	1
Phenanthrene	167	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/11/2016	MDK	1
Pyrene	118	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/11/2016	MDK	1
VOC's										
Benzene	< 4.4	ug/l	4.4	14	10	8260B		2/9/2016	CJR	1 49
Bromobenzene	< 4.8	ug/l	4.8	15	10	8260B		2/9/2016	CJR	1 49
Bromodichloromethane	< 4.6	ug/l	4.6	15	10	8260B		2/9/2016	CJR	1 49
Bromoform	< 4.6	ug/l	4.6	15	10	8260B		2/9/2016	CJR	1 49
tert-Butylbenzene	< 11	ug/l	11	34	10	8260B		2/9/2016	CJR	1 49
sec-Butylbenzene	< 12	ug/l	12	38	10	8260B		2/9/2016	CJR	1 49
n-Butylbenzene	< 10	ug/l	10	33	10	8260B		2/9/2016	CJR	1 49
Carbon Tetrachloride	< 5.1	ug/l	5.1	16	10	8260B		2/9/2016	CJR	1 49
Chlorobenzene	< 4.6	ug/l	4.6	14	10	8260B		2/9/2016	CJR	1 49
Chloroethane	< 6.5	ug/l	6.5	21	10	8260B		2/9/2016	CJR	1 49
Chloroform	< 4.3	ug/l	4.3	14	10	8260B		2/9/2016	CJR	1 49
Chloromethane	< 19	ug/l	19	60	10	8260B		2/9/2016	CJR	1 49
2-Chlorotoluene	< 4	ug/l	4	13	10	8260B		2/9/2016	CJR	1 49
4-Chlorotoluene	< 6.3	ug/l	6.3	20	10	8260B		2/9/2016	CJR	1 49
1,2-Dibromo-3-chloropropane	< 14	ug/l	14	45	10	8260B		2/9/2016	CJR	1 49
Dibromochloromethane	< 4.5	ug/l	4.5	14	10	8260B		2/9/2016	CJR	1 49
1,4-Dichlorobenzene	< 4.9	ug/l	4.9	16	10	8260B		2/9/2016	CJR	1 49
1,3-Dichlorobenzene	< 5.2	ug/l	5.2	16	10	8260B		2/9/2016	CJR	1 49
1,2-Dichlorobenzene	< 4.6	ug/l	4.6	15	10	8260B		2/9/2016	CJR	1 49
Dichlorodifluoromethane	< 8.7	ug/l	8.7	28	10	8260B		2/9/2016	CJR	1 49
1,2-Dichloroethane	< 4.8	ug/l	4.8	15	10	8260B		2/9/2016	CJR	1 49
1,1-Dichloroethane	< 11	ug/l	11	36	10	8260B		2/9/2016	CJR	1 49
1,1-Dichloroethene	< 6.5	ug/l	6.5	21	10	8260B		2/9/2016	CJR	1 49
cis-1,2-Dichloroethene	< 4.5	ug/l	4.5	14	10	8260B		2/9/2016	CJR	1 49
trans-1,2-Dichloroethene	< 5.4	ug/l	5.4	17	10	8260B		2/9/2016	CJR	1 49
1,2-Dichloropropane	< 4.3	ug/l	4.3	13.7	10	8260B		2/9/2016	CJR	1 49
2,2-Dichloropropane	< 31	ug/l	31	98	10	8260B		2/9/2016	CJR	2 4 49
1,3-Dichloropropane	< 4.2	ug/l	4.2	13	10	8260B		2/9/2016	CJR	1 49
Di-isopropyl ether	< 4.4	ug/l	4.4	14	10	8260B		2/9/2016	CJR	1 49
EDB (1,2-Dibromoethane)	< 6.3	ug/l	6.3	20	10	8260B		2/9/2016	CJR	1 49
Ethylbenzene	< 7.1	ug/l	7.1	23	10	8260B		2/9/2016	CJR	1 49
Hexachlorobutadiene	< 22	ug/l	22	71	10	8260B		2/9/2016	CJR	1 49
Isopropylbenzene	< 8.2	ug/l	8.2	26	10	8260B		2/9/2016	CJR	1 49
p-Isopropyltoluene	< 11	ug/l	11	35	10	8260B		2/9/2016	CJR	1 49
Methylene chloride	< 13	ug/l	13	42	10	8260B		2/9/2016	CJR	1 49
Methyl tert-butyl ether (MTBE)	< 11	ug/l	11	37	10	8260B		2/9/2016	CJR	1 49
Naphthalene	< 16	ug/l	16	52	10	8260B		2/9/2016	CJR	1 49
n-Propylbenzene	< 7.7	ug/l	7.7	24	10	8260B		2/9/2016	CJR	1 49

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452K
Sample ID SMW-22
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 5.2	ug/l	5.2	17	10	8260B		2/9/2016	CJR	1 49
1,1,1,2-Tetrachloroethane	< 4.8	ug/l	4.8	15	10	8260B		2/9/2016	CJR	1 49
Tetrachloroethene	< 4.9	ug/l	4.9	15	10	8260B		2/9/2016	CJR	1 49
Toluene	< 4.4	ug/l	4.4	14	10	8260B		2/9/2016	CJR	1 49
1,2,4-Trichlorobenzene	< 17	ug/l	17	56	10	8260B		2/9/2016	CJR	1 49
1,2,3-Trichlorobenzene	< 27	ug/l	27	86	10	8260B		2/9/2016	CJR	1 49
1,1,1-Trichloroethane	< 8.4	ug/l	8.4	27	10	8260B		2/9/2016	CJR	1 49
1,1,2-Trichloroethane	< 4.8	ug/l	4.8	15.2	10	8260B		2/9/2016	CJR	1 49
Trichloroethene (TCE)	< 4.7	ug/l	4.7	15	10	8260B		2/9/2016	CJR	1 49
Trichlorofluoromethane	< 8.7	ug/l	8.7	28	10	8260B		2/9/2016	CJR	1 49
1,2,4-Trimethylbenzene	< 16	ug/l	16	50	10	8260B		2/9/2016	CJR	1 49
1,3,5-Trimethylbenzene	< 15	ug/l	15	48	10	8260B		2/9/2016	CJR	1 49
Vinyl Chloride	< 1.7	ug/l	1.7	5.4	10	8260B		2/9/2016	CJR	1 49
m&p-Xylene	< 22	ug/l	22	69	10	8260B		2/9/2016	CJR	1 49
o-Xylene	< 9	ug/l	9	29	10	8260B		2/9/2016	CJR	1 49
SUR - 1,2-Dichloroethane-d4	96	REC %			10	8260B		2/9/2016	CJR	1 49
SUR - Toluene-d8	101	REC %			10	8260B		2/9/2016	CJR	1 49
SUR - 4-Bromofluorobenzene	103	REC %			10	8260B		2/9/2016	CJR	1 49
SUR - Dibromofluoromethane	94	REC %			10	8260B		2/9/2016	CJR	1 49

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452L
Sample ID STW-33
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	9.4	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	92	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452M
Sample ID STW-36
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	25.3	ug/l	1	3.2	50	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	9.7	ug/l	1.05	3.4	50	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	73	ug/l	1	3.2	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	40	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	13.3	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	12.9	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	6.7	ug/l	1.2	3.9	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	5.7	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	45	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	4.2	ug/l	1.25	4.05	50	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	33	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	47	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	4.4	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	121	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
2-Methyl naphthalene	162	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Naphthalene	1.51 "J"	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
Phenanthrene	229	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	93	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1

Lab Code 5030452N
Sample ID STW-37
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.88	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	0.159	ug/l	0.021	0.068	1	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	0.46	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	0.82	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	0.53	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	0.73	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	0.39	ug/l	0.024	0.078	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	0.277	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	0.79	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	0.105	ug/l	0.025	0.081	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	1.09	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	0.41	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.274	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	0.34	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
2-Methyl naphthalene	0.37	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Naphthalene	0.221	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Phenanthrene	0.49	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	2.17	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452O
Sample ID STW-42
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.19	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	0.281	ug/l	0.021	0.068	1	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	1.44	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	3.7	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	2.74	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	4.0	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	2.0	ug/l	0.024	0.078	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	1.09	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	3.1	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	0.51	ug/l	0.025	0.081	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	6.5	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	0.232	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	1.66	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	0.12	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
2-Methyl naphthalene	0.074	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Naphthalene	0.066	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Phenanthrene	3.3	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	7.0	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452P
Sample ID SMW-13
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	0.246	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	0.048 "J"	ug/l	0.021	0.068	1	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	0.21	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	0.034 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	0.030 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	< 0.024	ug/l	0.024	0.078	1	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	0.022 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	0.307	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	0.40	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	0.10	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
2-Methyl naphthalene	0.033 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Naphthalene	0.077	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
Phenanthrene	0.025 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	0.229	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/9/2016	MDK	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452P
Sample ID SMW-13
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	105	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452Q
Sample ID SMW-24
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	0.71 "J"	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	103	REC %			1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	106	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452R
Sample ID STW-40
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	10.5	ug/l	1	3.2	50	M8270C	2/9/2016	2/9/2016	MDK	1
Acenaphthylene	7.8	ug/l	1.05	3.4	50	M8270C	2/9/2016	2/9/2016	MDK	1
Anthracene	22	ug/l	1	3.2	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)anthracene	27.5	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(a)pyrene	7.5	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(b)fluoranthene	7.7	ug/l	0.95	3.1	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(g,h,i)perylene	3.14 "J"	ug/l	1.2	3.9	50	M8270C	2/9/2016	2/9/2016	MDK	1
Benzo(k)fluoranthene	1.91 "J"	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
Chrysene	38	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Dibenzo(a,h)anthracene	< 1.25	ug/l	1.25	4.05	50	M8270C	2/9/2016	2/9/2016	MDK	1
Fluoranthene	20.5	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
Fluorene	22.3	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Indeno(1,2,3-cd)pyrene	2.15 "J"	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1
1-Methyl naphthalene	19.3	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	6
2-Methyl naphthalene	5.7	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	6
Naphthalene	1.96 "J"	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	6
Phenanthrene	64	ug/l	0.85	2.7	50	M8270C	2/9/2016	2/9/2016	MDK	1
Pyrene	49	ug/l	0.9	2.85	50	M8270C	2/9/2016	2/9/2016	MDK	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452S
Sample ID SMW-12
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	28.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452T
Sample ID SMW-15
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	104	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	96	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452U
Sample ID SMW-20
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/10/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	2/9/2016	2/10/2016	MDK	1
Anthracene	0.055 "J"	ug/l	0.02	0.064	1	M8270C	2/9/2016	2/10/2016	MDK	1
Benzo(a)anthracene	0.046 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/10/2016	MDK	1
Benzo(a)pyrene	0.030 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/10/2016	MDK	1
Benzo(b)fluoranthene	0.036 "J"	ug/l	0.019	0.062	1	M8270C	2/9/2016	2/10/2016	MDK	1
Benzo(g,h,i)perylene	0.029 "J"	ug/l	0.024	0.078	1	M8270C	2/9/2016	2/10/2016	MDK	1
Benzo(k)fluoranthene	0.032 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/10/2016	MDK	1
Chrysene	0.046 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/10/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/9/2016	2/10/2016	MDK	1
Fluoranthene	0.052 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/10/2016	MDK	1
Fluorene	0.021 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/10/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.026 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/10/2016	MDK	1
1-Methyl naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/10/2016	MDK	1
2-Methyl naphthalene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/10/2016	MDK	1
Naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/10/2016	MDK	1
Phenanthrene	0.035 "J"	ug/l	0.017	0.054	1	M8270C	2/9/2016	2/10/2016	MDK	1
Pyrene	0.049 "J"	ug/l	0.018	0.057	1	M8270C	2/9/2016	2/10/2016	MDK	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452V
Sample ID DUPLICATE
Sample Matrix Water
Sample Date 2/4/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/9/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/9/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/9/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/9/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/9/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/9/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/9/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/9/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/9/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/9/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/9/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/9/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/9/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/9/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/9/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/9/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/9/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/9/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/9/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/9/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/9/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/9/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/9/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/9/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/9/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/9/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/9/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/9/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/9/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/9/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/9/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/9/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/9/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/9/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/9/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/9/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/9/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/9/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/9/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/9/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/9/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/9/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/9/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/9/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/9/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/9/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/9/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/9/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/9/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/9/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/9/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/9/2016	CJR	1
SUR - Dibromofluoromethane	98	REC %			1	8260B		2/9/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/9/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			1	8260B		2/9/2016	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/9/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452W
Sample ID EQUIP
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/8/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/8/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/8/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/8/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/8/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/8/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/8/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/8/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/8/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/8/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/8/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/8/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/8/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/8/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/8/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/8/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/8/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/8/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/8/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/8/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/8/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/8/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/8/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/8/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/8/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/8/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/8/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/8/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/8/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/8/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/8/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/8/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/8/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/8/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/8/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/8/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/8/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/8/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/8/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/8/2016	CJR	1
SUR - Toluene-d8	103	REC %			1	8260B		2/8/2016	CJR	1
SUR - Dibromofluoromethane	93	REC %			1	8260B		2/8/2016	CJR	1
SUR - 4-Bromofluorobenzene	105	REC %			1	8260B		2/8/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			1	8260B		2/8/2016	CJR	1

Project Name WANGARD PARTNERS **Invoice #** E30452
Project # 14160

Lab Code 5030452X
Sample ID TRIP
Sample Matrix Water
Sample Date 2/5/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		2/9/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		2/9/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		2/9/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		2/9/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		2/9/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		2/9/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		2/9/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		2/9/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		2/9/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		2/9/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		2/9/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		2/9/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		2/9/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		2/9/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		2/9/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		2/9/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		2/9/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		2/9/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		2/9/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/9/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/9/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		2/9/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		2/9/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		2/9/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		2/9/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		2/9/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		2/9/2016	CJR	4
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		2/9/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		2/9/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		2/9/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		2/9/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		2/9/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		2/9/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		2/9/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		2/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		2/9/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		2/9/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		2/9/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		2/9/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		2/9/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		2/9/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		2/9/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		2/9/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		2/9/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		2/9/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		2/9/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		2/9/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		2/9/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		2/9/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		2/9/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		2/9/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		2/9/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		2/9/2016	CJR	1
SUR - Toluene-d8	102	REC %			1	8260B		2/9/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		2/9/2016	CJR	1
SUR - 4-Bromofluorobenzene	101	REC %			1	8260B		2/9/2016	CJR	1
SUR - Dibromofluoromethane	101	REC %			1	8260B		2/9/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
4	The continuing calibration standard not within established limits.
6	The surrogate recovery not within established limits.
49	Sample diluted to compensate for matrix interference.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

G088

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 1999

Page 1 of 3

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. :

Quote No.:

Project #: 14160

Sampler: (signature) David Dailey

Project (Name / Location): Wangard Partners; 1st + Greenfield, Milw. WS

Reports To: Adam Roder	Invoice To:
Company The Sigma Group	Company
Address 1300 W. Canal St.	Address
City State Zip Milw. WS 53233	City State Zip
Phone 414 643 4200	Phone
FAX	FAX

Analysis Requested

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	PVOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	PAH (EPA 8270)	Total Suspended Solids	Lead	Other Analysis: Dissolved Barium	PID/ FID
5030452A	MW-10	2-4-16	10:25		G	N	3	GW	HCL				X						
B	MW-10P		10:15			N	4		HCL None				X		X				
C	SMW-11		11:10			*Yes	4		HCL, HNO_3				X					X	
D	STW-34		2:50			N	3		HCL				X						
E	SMW-3		2:10			N	3		HCL				X						
F	SMW-7		2:30			N	3		HCL				X						
G	SMW-8		2:20			N	3		HCL				X						
H	SMW-9		2:00			N	3		HCL				X						
I	SMW-10C		1:45			N	3		HCL				X						
J	SMW-14		11:40			N	4		HCL-None				X		X				

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

* SMW 11 only the HNO_3 is filtered

Sample Integrity - To be completed by receiving lab.
Method of Shipment: SMV
Temp. of Temp. Blank. ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
David Dailey	12:30 PM	2-5-16			

Received in Laboratory By: [signature] Time: 10:00 Date: 2/6/16

Good

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 2881

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #
Account No.:
Quote No.:
Project #: 14160
Sampler: (signature) Dari Dailey
Project (Name / Location): Wangard Partners; 1st & Greenfield, Milw. WI

Reports To: Adam Roder
Company: The Sigma Group
Address: 1300 W. Canal St.
City State Zip: Milw. WI 53233
Phone: 414-643-4200
FAX:

Invoice To:
Company:
Address:
City State Zip:
Phone:
FAX:

Analysis Requested / Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	PID/FID
5030452 k	SMW-22	2-4-16	12:15		G	N	4	GW	HCL None						X							X		
L	STW-33	2-4-16	2:45				3		HCL													X		
m	STW-36	2-5-16	10:00				1		None						X									
N	STW-37	2-5-16	10:30				1		None						X									
O	STW-42	2-5-16	11:00				1		None						X									
P	SMW-13	2-4-16	9:40				4		HCL None						X							X		
Q	SMW-24	2-5-16	11:45				3		HCL													X		
R	STW-40	2-5-16	9:30				1		None						X									
S	SMW-12	2-4-16	3:20				3		HCL													X		
T	SMW-15	2-4-16	3:50				3		HCL													X		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

* SMW-22 HOT Sample

Sample Integrity - To be completed by receiving lab.
Method of Shipment: SWA
Temp. of Temp. Blank ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Dari Dailey	12:30 PM	2-5-16			

Received in Laboratory By: [signature] Time: 10:00 Date: 2/6/16

G66C

CHAIN OF CUSTODY RECORD

Synergy Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 7998

Page 3 of 3

Sample Handling Request
___ Rush Analysis Date Required ___
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. :

Quote No.:

Project #: 14160

Sampler: (signature) David Dailey

Project (Name / Location): Wangard Partners, 1st & Greenfield, Milw. WI

Reports To: Adam Roder	Invoice To:
Company The Sigma Group	Company
Address 1300 W. Canal St.	Address
City State Zip Milw. WI 53233	City State Zip
Phone 414-643-4200	Phone
FAX	FAX

Analysis Requested

Other Analysis

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	PVOC (EPA 8021)	VOC (EPA 8260)	VOC DW (EPA 524.2)	PAH (EPA 8270)	Total Suspended Solids	Lead	PID/ FID
5030452U	Smw-20	2-4-16	4:15		G	N	1	GW	None						X			
V	Duplicate	2-4-16	–		G	N	5		HCL None				X		X			
W	Equip.	2-5-16	–		–	N	2	–	HCL				X					
X	Trip	–	–		–	N	1		HC				X					

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Sur
Temp. of Temp. Blank. ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
David Dailey	12:30 PM	2-5-16			

Received in Laboratory By: [signature] Time: 10:00 Date: 2/6/16

ATTACHMENT 2

WDNR CORRESPONDENCE EMAILS

Adam Roder

From: Ryan, Nancy D - DNR <Nancy.Ryan@wisconsin.gov>
Sent: Wednesday, March 16, 2016 3:36 PM
To: Adam Roder
Cc: Wayne Wiertzema (wwiertzema@wangard.com)
Subject: RE: Freshwater Plaza Lot 1 - conditional soil management approval

Follow Up Flag: Follow up
Flag Status: Flagged

Adam,
Thank you for revising the sampling plan. I concur with the rationale, and therefore approve the sampling strategy as appropriate to characterize the material for disposal. Let me know if you have any concerns. We look forward to receiving the new data for review.
Regards,

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Nancy D. Ryan
Hydrogeologist, Bureau for Remediation and Redevelopment
Wisconsin Department of Natural Resources
2300 N. Dr. Martin Luther King, Jr. Dr.
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Phone: (414) 263-8533
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From: Adam Roder [mailto:aroder@thesigmagroup.com]
Sent: Wednesday, March 16, 2016 9:09 AM
To: Ryan, Nancy D - DNR
Cc: Wayne Wiertzema (wwiertzema@wangard.com)
Subject: RE: Freshwater Plaza Lot 1 - conditional soil management approval

Nancy,

Per our discussion yesterday, we are proposing the following soil sampling strategy and testing program for the approximately 2,000 cubic yards of soil that has been generated from the Cermak building pad (currently stockpiled pending placement). NR 718.12(1)(e)(1) requires that one sample be collected for each 100 CY of impacted soil for the first 600 CY, and then one sample for each 300 CY thereafter. The 2,000 CY of impacted soil to be relocated from the Cermak grocery store pad corresponds to 10 to 11 soil samples (average of one sample per 180 to 200 CY of impacted soil).

The Lot 1 Soil Management Plan presented data from one surface sample (SB01-01, 0 to 2 feet bgs), one near-surface sample (SMW-21, 1 to 3 feet bgs), and seven shallow samples (2 to 4 feet bgs). In these soil samples,

individual VOC concentrations (all petroleum based, no chlorinated solvents) ranged from non-detect to approximately 2 parts per million (ppm), individual PAH concentrations ranged from non-detect to approximately 7.8 ppm, lead concentrations (primary metal of concern) ranged from approximately 5 to 295 ppm, and individual PCB concentrations ranged from non-detect to 5.3 ppm. Preparation for the grocery store footprint required soil cuts ranging from 0 to approximately 2.7 feet, so surface / near surface soil samples from borings SB01 and SMW-21 should be considered representative. These samples, along with the recommended additional samples, will characterize the material to be reused. We are proposing to collect six (6) new soil samples - for a total of 8 samples - based on the following rationale:

- Data represented by the nine soil samples in the Lot 1 Soil Management Plan were relatively consistent among the locations. Overall, these concentrations are similar to many other portions of Lot 1 (and the whole Freshwater Plaza redevelopment site); contaminants in shallower soil samples are expected to be on a similar order of magnitude.
- Prior to construction, the ground surface in the grocery store footprint was mostly covered with several inches of crushed concrete, gravel, and limestone screenings (from the May 2015 remedial excavation). Over the footprint of the building, assuming an average thickness of 3 inches, this granular material amounts to approximately 400 CY of material. Sampling this granular material at the ground surface is not feasible due to the large particle sizes (crushed concrete and gravel) or would not be warranted (imported backfill from a quarry for the remedial excavation).
- A sampling frequency of 8 soil samples (2 existing samples plus 6 new samples) yields one sample per 250 CY based on 2,000 CY of impacted soil. If the 400 CY of surface granular material are excluded, the sample frequency is one sample per 200 CY of material, which is near the average sampling frequency indicated above.

Therefore, we propose to collect six new soil samples for analysis of VOCs, PAHs, PCBs, and RCRA metals. The soil from the grocery store footprint has been stockpiled and these samples will be collected from six spatially / volumetrically representative samples from the stockpile (that is, each sample will represent an approximately equivalent volume of soil). It is intended that these samples be collected before relocating the soil so that quality data can be evaluated with the SB01-01 and SMW-21 data prior to being relocated the soil per the Soil Management Plan.

Please contact me with you approval or comments, thank you.

Adam

Adam J. Roder, P.E.
Senior Engineer
414.643.4134 (direct)
414.588.7016 (cell)

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From: Ryan, Nancy D - DNR [mailto:Nancy.Ryan@wisconsin.gov]
Sent: Monday, March 14, 2016 2:15 PM
To: dklein@cdsmity.com; wwiertzema@wangard.com
Cc: Adam Roder <aroder@thesigmagroup.com>
Subject: Freshwater Plaza Lot 1 - conditional soil management approval

Gentlemen,
Attached please find a copy of the conditional approval of the soil management plan for Lot 1. We have approved a portion of the volume requested and are asking for s additional sampling of soil excavated from the grocery store portion of the lot . Hard copies will be mailed to Mr. Klein and Mr. Wiertzema. Please let me know if you have any questions regarding this approval.
Regards,

We are committed to service excellence.
Visit our survey at http://dnr.wi.gov/customersurvey to evaluate how I did.

Nancy D. Ryan
Hydrogeologist, Bureau for Remediation and Redevelopment
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ATTACHMENT 3

SOIL LABORATORY ANALYTICAL REPORT

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

STACY OSZUSCIK
THE SIGMA GROUP, INC.
1300 W. CANAL STREET
MILWAUKEE, WI 53233

Report Date *08-Apr-16*

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717A
Sample ID CERMAK GRAB 1
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.3	%			1	5021		3/24/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		4/1/2016	CWT	1
Barium, Total	60.4	mg/Kg	0.19	0.63	1	6010B		4/1/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		4/1/2016	CWT	1
Chromium, Total	219	mg/Kg	0.16	0.51	1	6010B		4/1/2016	CWT	1
Lead, Total	295	mg/Kg	0.52	1.72	2	6010B		4/1/2016	CWT	1 49
Mercury, Total	0.5807	mg/kg	0.0155	0.049	5	7471		3/28/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		4/1/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		4/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.189	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Acenaphthylene	0.16	mg/kg	0.0179	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Anthracene	0.80	mg/kg	0.0185	0.059	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)anthracene	< 0.0174	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)pyrene	2.35	mg/kg	0.0168	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(b)fluoranthene	3.8	mg/kg	0.0194	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(g,h,i)perylene	1.79	mg/kg	0.017	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(k)fluoranthene	1.16	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Chrysene	2.03	mg/kg	0.0206	0.066	1	M8270C	3/25/2016	3/25/2016	DJL	1
Dibenzo(a,h)anthracene	0.39	mg/kg	0.0212	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluoranthene	4.7	mg/kg	0.0196	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluorene	0.16	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Indeno(1,2,3-cd)pyrene	1.54	mg/kg	0.0223	0.071	1	M8270C	3/25/2016	3/25/2016	DJL	1
1-Methyl naphthalene	0.099	mg/kg	0.0214	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
2-Methyl naphthalene	0.126	mg/kg	0.0178	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Naphthalene	0.117	mg/kg	0.0182	0.058	1	M8270C	3/25/2016	3/25/2016	DJL	1
Phenanthrene	2.09	mg/kg	0.0163	0.052	1	M8270C	3/25/2016	3/25/2016	DJL	1
Pyrene	4.1	mg/kg	0.0188	0.06	1	M8270C	3/25/2016	3/25/2016	DJL	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717A
Sample ID CERMAK GRAB 1
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		3/31/2016	ESC	2 64
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1242	0.515	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1254	0.468	mg/kg	0.0047	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		3/31/2016	ESC	1 64
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		3/25/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		3/25/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		3/25/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		3/25/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		3/25/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		3/25/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		3/25/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		3/25/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		3/25/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/25/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		3/25/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		3/25/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/25/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		3/25/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		3/25/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		3/25/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/25/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		3/25/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		3/25/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		3/25/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		3/25/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		3/25/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		3/25/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		3/25/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		3/25/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/25/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		3/25/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		3/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		3/25/2016	CJR	1
Naphthalene	0.193 "J"	mg/kg	0.087	0.28	1	8260B		3/25/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		3/25/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		3/25/2016	CJR	1
Toluene	0.037 "J"	mg/kg	0.031	0.099	1	8260B		3/25/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/25/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/25/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		3/25/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/25/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		3/25/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		3/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		3/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		3/25/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717A
Sample ID CERMAK GRAB 1
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		3/25/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		3/25/2016	CJR	1
o-Xylene	0.042 "J"	mg/kg	0.029	0.092	1	8260B		3/25/2016	CJR	1
SUR - Dibromofluoromethane	119	Rec %			1	8260B		3/25/2016	CJR	1
SUR - Toluene-d8	101	Rec %			1	8260B		3/25/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	110	Rec %			1	8260B		3/25/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B		3/25/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717B
Sample ID CERMAK GRAB 2
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.3	%			1	5021		3/24/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		4/1/2016	CWT	1
Barium, Total	81.5	mg/Kg	0.19	0.63	1	6010B		4/1/2016	CWT	1
Cadmium, Total	0.388	mg/Kg	0.08	0.25	1	6010B		4/1/2016	CWT	1
Chromium, Total	108	mg/Kg	0.16	0.51	1	6010B		4/1/2016	CWT	1
Lead, Total	357	mg/Kg	0.52	1.72	2	6010B		4/1/2016	CWT	1 49
Mercury, Total	0.500	mg/kg	0.0031	0.0098	1	7471		3/28/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		4/1/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		4/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.38	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Acenaphthylene	0.169	mg/kg	0.0179	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Anthracene	1.23	mg/kg	0.0185	0.059	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)anthracene	< 0.0174	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)pyrene	2.97	mg/kg	0.0168	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(b)fluoranthene	4.6	mg/kg	0.0194	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(g,h,i)perylene	2.01	mg/kg	0.017	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(k)fluoranthene	1.53	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Chrysene	2.58	mg/kg	0.0206	0.066	1	M8270C	3/25/2016	3/25/2016	DJL	1
Dibenzo(a,h)anthracene	0.44	mg/kg	0.0212	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluoranthene	7.0	mg/kg	0.0196	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluorene	0.292	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Indeno(1,2,3-cd)pyrene	1.75	mg/kg	0.0223	0.071	1	M8270C	3/25/2016	3/25/2016	DJL	1
1-Methyl naphthalene	0.141	mg/kg	0.0214	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
2-Methyl naphthalene	0.161	mg/kg	0.0178	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Naphthalene	0.162	mg/kg	0.0182	0.058	1	M8270C	3/25/2016	3/25/2016	DJL	1
Phenanthrene	3.7	mg/kg	0.0163	0.052	1	M8270C	3/25/2016	3/25/2016	DJL	1
Pyrene	6.0	mg/kg	0.0188	0.06	1	M8270C	3/25/2016	3/25/2016	DJL	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1242	0.827	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1254	0.772	mg/kg	0.0047	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		3/31/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		3/25/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		3/25/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		3/25/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		3/25/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		3/25/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		3/25/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		3/25/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		3/25/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		3/25/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/25/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		3/25/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717B
Sample ID CERMAK GRAB 2
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		3/25/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/25/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		3/25/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		3/25/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		3/25/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/25/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		3/25/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		3/25/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		3/25/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		3/25/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		3/25/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		3/25/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		3/25/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		3/25/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/25/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		3/25/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		3/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		3/25/2016	CJR	1
Naphthalene	0.188 "J"	mg/kg	0.087	0.28	1	8260B		3/25/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		3/25/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		3/25/2016	CJR	1
Toluene	0.044 "J"	mg/kg	0.031	0.099	1	8260B		3/25/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/25/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/25/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		3/25/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/25/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		3/25/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		3/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		3/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		3/25/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		3/25/2016	CJR	1
m&p-Xylene	0.115 "J"	mg/kg	0.07	0.22	1	8260B		3/25/2016	CJR	1
o-Xylene	0.059 "J"	mg/kg	0.029	0.092	1	8260B		3/25/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	106	Rec %			1	8260B		3/25/2016	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		3/25/2016	CJR	1
SUR - 4-Bromofluorobenzene	98	Rec %			1	8260B		3/25/2016	CJR	1
SUR - Dibromofluoromethane	121	Rec %			1	8260B		3/25/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717C
Sample ID CERMAK GRAB 3
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.1	%			1	5021		3/24/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		4/1/2016	CWT	1
Barium, Total	62.5	mg/Kg	0.19	0.63	1	6010B		4/1/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		4/1/2016	CWT	1
Chromium, Total	52.1	mg/Kg	0.16	0.51	1	6010B		4/1/2016	CWT	1
Lead, Total	211	mg/Kg	0.52	1.72	2	6010B		4/1/2016	CWT	1 49
Mercury, Total	0.3597	mg/kg	0.0031	0.0098	1	7471		3/28/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		4/1/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		4/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.104	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Acenaphthylene	0.091	mg/kg	0.0179	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Anthracene	0.41	mg/kg	0.0185	0.059	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)anthracene	< 0.0174	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)pyrene	1.47	mg/kg	0.0168	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(b)fluoranthene	2.31	mg/kg	0.0194	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(g,h,i)perylene	1.02	mg/kg	0.017	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(k)fluoranthene	0.77	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Chrysene	1.29	mg/kg	0.0206	0.066	1	M8270C	3/25/2016	3/25/2016	DJL	1
Dibenzo(a,h)anthracene	0.233	mg/kg	0.0212	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluoranthene	2.87	mg/kg	0.0196	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluorene	0.093	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Indeno(1,2,3-cd)pyrene	0.86	mg/kg	0.0223	0.071	1	M8270C	3/25/2016	3/25/2016	DJL	1
1-Methyl naphthalene	0.076	mg/kg	0.0214	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
2-Methyl naphthalene	0.123	mg/kg	0.0178	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Naphthalene	0.097	mg/kg	0.0182	0.058	1	M8270C	3/25/2016	3/25/2016	DJL	1
Phenanthrene	1.34	mg/kg	0.0163	0.052	1	M8270C	3/25/2016	3/25/2016	DJL	1
Pyrene	2.57	mg/kg	0.0188	0.06	1	M8270C	3/25/2016	3/25/2016	DJL	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1242	0.336	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1254	0.129	mg/kg	0.0047	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		3/31/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		3/25/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		3/25/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		3/25/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		3/25/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		3/25/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		3/25/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		3/25/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		3/25/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		3/25/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		3/25/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		3/25/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717C
Sample ID CERMAK GRAB 3
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		3/25/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		3/25/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		3/25/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		3/25/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		3/25/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		3/25/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		3/25/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		3/25/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		3/25/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		3/25/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		3/25/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		3/25/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		3/25/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		3/25/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		3/25/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		3/25/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		3/25/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		3/25/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		3/25/2016	CJR	1
Naphthalene	0.112 "J"	mg/kg	0.087	0.28	1	8260B		3/25/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		3/25/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		3/25/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		3/25/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		3/25/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		3/25/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		3/25/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		3/25/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		3/25/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		3/25/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		3/25/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		3/25/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		3/25/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		3/25/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		3/25/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		3/25/2016	CJR	1
o-Xylene	0.066 "J"	mg/kg	0.029	0.092	1	8260B		3/25/2016	CJR	1
SUR - Toluene-d8	103	Rec %			1	8260B		3/25/2016	CJR	1
SUR - Dibromofluoromethane	116	Rec %			1	8260B		3/25/2016	CJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B		3/25/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	105	Rec %			1	8260B		3/25/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717D
Sample ID CERMAK GRAB 4
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.0	%			1	5021		3/24/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		4/1/2016	CWT	1
Barium, Total	46.8	mg/Kg	0.19	0.63	1	6010B		4/1/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		4/1/2016	CWT	1
Chromium, Total	48.2	mg/Kg	0.16	0.51	1	6010B		4/1/2016	CWT	1
Lead, Total	167	mg/Kg	0.52	1.72	2	6010B		4/1/2016	CWT	1 49
Mercury, Total	0.4228	mg/kg	0.0031	0.0098	1	7471		3/28/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		4/1/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		4/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.231	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Acenaphthylene	0.164	mg/kg	0.0179	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Anthracene	0.93	mg/kg	0.0185	0.059	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)anthracene	3.6	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(a)pyrene	3.03	mg/kg	0.0168	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(b)fluoranthene	4.6	mg/kg	0.0194	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(g,h,i)perylene	1.99	mg/kg	0.017	0.054	1	M8270C	3/25/2016	3/25/2016	DJL	1
Benzo(k)fluoranthene	1.79	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/25/2016	DJL	1
Chrysene	2.48	mg/kg	0.0206	0.066	1	M8270C	3/25/2016	3/25/2016	DJL	1
Dibenzo(a,h)anthracene	0.48	mg/kg	0.0212	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluoranthene	5.9	mg/kg	0.0196	0.062	1	M8270C	3/25/2016	3/25/2016	DJL	1
Fluorene	0.208	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/25/2016	DJL	1
Indeno(1,2,3-cd)pyrene	1.79	mg/kg	0.0223	0.071	1	M8270C	3/25/2016	3/25/2016	DJL	1
1-Methyl naphthalene	0.107	mg/kg	0.0214	0.068	1	M8270C	3/25/2016	3/25/2016	DJL	1
2-Methyl naphthalene	0.139	mg/kg	0.0178	0.057	1	M8270C	3/25/2016	3/25/2016	DJL	1
Naphthalene	0.132	mg/kg	0.0182	0.058	1	M8270C	3/25/2016	3/25/2016	DJL	1
Phenanthrene	2.67	mg/kg	0.0163	0.052	1	M8270C	3/25/2016	3/25/2016	DJL	1
Pyrene	5.2	mg/kg	0.0188	0.06	1	M8270C	3/25/2016	3/25/2016	DJL	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1242	0.385	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1254	0.201	mg/kg	0.0047	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		3/31/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/1/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/1/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/1/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/1/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/1/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/1/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/1/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/1/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/1/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/1/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717D
Sample ID CERMAK GRAB 4
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/1/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/1/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/1/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/1/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/1/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/1/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/1/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/1/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/1/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/1/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/1/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/1/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/1/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/1/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/1/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		4/1/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/1/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/1/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/1/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/1/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/1/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/1/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/1/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/1/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/1/2016	CJR	1
m&p-Xylene	0.093 "J"	mg/kg	0.07	0.22	1	8260B		4/1/2016	CJR	1
o-Xylene	0.035 "J"	mg/kg	0.029	0.092	1	8260B		4/1/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	104	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		4/1/2016	CJR	1
SUR - 4-Bromofluorobenzene	97	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Dibromofluoromethane	121	Rec %			1	8260B		4/1/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717E
Sample ID CERMAK GRAB 5
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.7	%			1	5021		3/24/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		4/1/2016	CWT	1
Barium, Total	47.9	mg/Kg	0.19	0.63	1	6010B		4/1/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		4/1/2016	CWT	1
Chromium, Total	48.0	mg/Kg	0.16	0.51	1	6010B		4/1/2016	CWT	1
Lead, Total	186	mg/Kg	0.52	1.72	2	6010B		4/1/2016	CWT	1 49
Mercury, Total	0.3347	mg/kg	0.0031	0.0098	1	7471		3/28/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		4/1/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		4/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.155	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Acenaphthylene	0.098	mg/kg	0.0179	0.057	1	M8270C	3/25/2016	3/26/2016	DJL	1
Anthracene	0.56	mg/kg	0.0185	0.059	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Benzo(a)anthracene	2.35	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Benzo(a)pyrene	1.92	mg/kg	0.0168	0.054	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Benzo(b)fluoranthene	3.1	mg/kg	0.0194	0.062	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Benzo(g,h,i)perylene	1.25	mg/kg	0.017	0.054	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Benzo(k)fluoranthene	1.04	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Chrysene	1.62	mg/kg	0.0206	0.066	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Dibenzo(a,h)anthracene	0.30	mg/kg	0.0212	0.068	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Fluoranthene	3.6	mg/kg	0.0196	0.062	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Fluorene	0.126	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Indeno(1,2,3-cd)pyrene	1.19	mg/kg	0.0223	0.071	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
1-Methyl naphthalene	0.114	mg/kg	0.0214	0.068	1	M8270C	3/25/2016	3/26/2016	DJL	1
2-Methyl naphthalene	0.116	mg/kg	0.0178	0.057	1	M8270C	3/25/2016	3/26/2016	DJL	1
Naphthalene	0.095	mg/kg	0.0182	0.058	1	M8270C	3/25/2016	3/26/2016	DJL	1
Phenanthrene	1.58	mg/kg	0.0163	0.052	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
Pyrene	3.2	mg/kg	0.0188	0.06	1	M8270C	3/25/2016	3/26/2016	DJL	2 75
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1242	2.01	mg/kg	0.016	0.085	5	EPA 8082A		3/31/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1254	0.439	mg/kg	0.0047	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		3/31/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/1/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/1/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/1/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/1/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/1/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/1/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/1/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/1/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/1/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/1/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717E
Sample ID CERMAK GRAB 5
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/1/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/1/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/1/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/1/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/1/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/1/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/1/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/1/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/1/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/1/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/1/2016	CJR	1
p-Isopropyltoluene	0.279	mg/kg	0.056	0.18	1	8260B		4/1/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/1/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/1/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/1/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		4/1/2016	CJR	1
Toluene	0.041 "J"	mg/kg	0.031	0.099	1	8260B		4/1/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/1/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/1/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/1/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/1/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/1/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/1/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/1/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/1/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/1/2016	CJR	1
o-Xylene	0.036 "J"	mg/kg	0.029	0.092	1	8260B		4/1/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	91	Rec %			1	8260B		4/1/2016	CJR	1
SUR - 4-Bromofluorobenzene	95	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Dibromofluoromethane	108	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		4/1/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717F
Sample ID CERMAK GRAB 6
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.6	%			1	5021		3/24/2016	NJC	1
Inorganic										
Metals										
Arsenic, Total	< 0.67	mg/Kg	0.67	2.22	1	6010B		4/1/2016	CWT	1
Barium, Total	199	mg/Kg	0.19	0.63	1	6010B		4/1/2016	CWT	1
Cadmium, Total	< 0.08	mg/Kg	0.08	0.25	1	6010B		4/1/2016	CWT	1
Chromium, Total	91.9	mg/Kg	0.16	0.51	1	6010B		4/1/2016	CWT	1
Lead, Total	596	mg/Kg	0.52	1.72	2	6010B		4/1/2016	CWT	1 49
Mercury, Total	0.5012	mg/kg	0.0031	0.0098	1	7471		3/28/2016	CWT	1
Selenium, Total	< 0.55	mg/Kg	0.55	1.81	1	6010B		4/1/2016	CWT	1
Silver, Total	< 0.44	mg/Kg	0.44	1.38	1	6010B		4/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	0.239	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/26/2016	DJL	1
Acenaphthylene	0.129	mg/kg	0.0179	0.057	1	M8270C	3/25/2016	3/26/2016	DJL	1
Anthracene	0.94	mg/kg	0.0185	0.059	1	M8270C	3/25/2016	3/26/2016	DJL	1
Benzo(a)anthracene	2.76	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/26/2016	DJL	1
Benzo(a)pyrene	2.15	mg/kg	0.0168	0.054	1	M8270C	3/25/2016	3/26/2016	DJL	1
Benzo(b)fluoranthene	3.06	mg/kg	0.0194	0.062	1	M8270C	3/25/2016	3/26/2016	DJL	1
Benzo(g,h,i)perylene	1.26	mg/kg	0.017	0.054	1	M8270C	3/25/2016	3/26/2016	DJL	1
Benzo(k)fluoranthene	1.1	mg/kg	0.0174	0.055	1	M8270C	3/25/2016	3/26/2016	DJL	1
Chrysene	1.8	mg/kg	0.0206	0.066	1	M8270C	3/25/2016	3/26/2016	DJL	1
Dibenzo(a,h)anthracene	0.32	mg/kg	0.0212	0.068	1	M8270C	3/25/2016	3/26/2016	DJL	1
Fluoranthene	4.4	mg/kg	0.0196	0.062	1	M8270C	3/25/2016	3/26/2016	DJL	1
Fluorene	0.41	mg/kg	0.0202	0.064	1	M8270C	3/25/2016	3/26/2016	DJL	1
Indeno(1,2,3-cd)pyrene	1.15	mg/kg	0.0223	0.071	1	M8270C	3/25/2016	3/26/2016	DJL	1
1-Methyl naphthalene	0.248	mg/kg	0.0214	0.068	1	M8270C	3/25/2016	3/26/2016	DJL	1
2-Methyl naphthalene	0.226	mg/kg	0.0178	0.057	1	M8270C	3/25/2016	3/26/2016	DJL	1
Naphthalene	0.49	mg/kg	0.0182	0.058	1	M8270C	3/25/2016	3/26/2016	DJL	1
Phenanthrene	2.34	mg/kg	0.0163	0.052	1	M8270C	3/25/2016	3/26/2016	DJL	1
Pyrene	4.1	mg/kg	0.0188	0.06	1	M8270C	3/25/2016	3/26/2016	DJL	1
PCB'S										
PCB-1016	< 0.0035	mg/kg	0.0035	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1221	< 0.0054	mg/kg	0.0054	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1232	< 0.0042	mg/kg	0.0042	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1242	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1248	< 0.0032	mg/kg	0.0032	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1254	0.0510	mg/kg	0.0047	0.017	1	EPA 8082A		3/31/2016	ESC	1
PCB-1260	< 0.0049	mg/kg	0.0049	0.017	1	EPA 8082A		3/31/2016	ESC	1
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/1/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/1/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/1/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/1/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/1/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/1/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/1/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/1/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/1/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/1/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717F
Sample ID CERMAK GRAB 6
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/1/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/1/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/1/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/1/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/1/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/1/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/1/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/1/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/1/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/1/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/1/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/1/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/1/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
Naphthalene	0.16 "J"	mg/kg	0.087	0.28	1	8260B		4/1/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/1/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		4/1/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/1/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/1/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/1/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/1/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/1/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/1/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/1/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/1/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/1/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/1/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/1/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	93	Rec %			1	8260B		4/1/2016	CJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Dibromofluoromethane	110	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Toluene-d8	100	Rec %			1	8260B		4/1/2016	CJR	1

Project Name FRESHWATER PLAZA **Invoice #** E30717
Project # 14160-024

Lab Code 5030717G
Sample ID TRIP BLANK
Sample Matrix Soil
Sample Date 3/22/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		4/1/2016	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		4/1/2016	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		4/1/2016	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		4/1/2016	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		4/1/2016	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		4/1/2016	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		4/1/2016	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		4/1/2016	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		4/1/2016	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		4/1/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		4/1/2016	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		4/1/2016	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		4/1/2016	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		4/1/2016	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		4/1/2016	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		4/1/2016	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		4/1/2016	CJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		4/1/2016	CJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		4/1/2016	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		4/1/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		4/1/2016	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		4/1/2016	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		4/1/2016	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		4/1/2016	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		4/1/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		4/1/2016	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		4/1/2016	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		4/1/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		4/1/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		4/1/2016	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		4/1/2016	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		4/1/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		4/1/2016	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		4/1/2016	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		4/1/2016	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		4/1/2016	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		4/1/2016	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		4/1/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		4/1/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		4/1/2016	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		4/1/2016	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		4/1/2016	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		4/1/2016	CJR	1
SUR - Toluene-d8	102	Rec %			1	8260B		4/1/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	116	Rec %			1	8260B		4/1/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	Rec %			1	8260B		4/1/2016	CJR	1
SUR - Dibromofluoromethane	117	Rec %			1	8260B		4/1/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

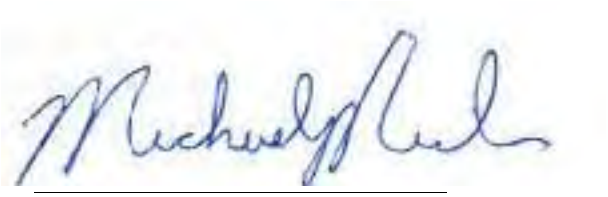
Code	*Comment*
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
49	Sample diluted to compensate for matrix interference.
64	Spike recovery failed due to matrix interference.
75	RPD failed due to matrix interference.

CWT denotes sub contract lab - Certification #445126660

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature



CHAIN OF JSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # № 2700

Page 1 of 1

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
✓ Normal Turn Around

Lab I.D. #

Account No. :

Quote No.: Standard

Project #: 14160-024

Sampler: (signature) SOzyusciK

Project (Name / Location): Freshwater Plaza - 1st St. + Greenfield Ave, MKE

Reports To:	Stacy Ozyuscik	Invoice To:	Adam Roder
Company	Sigma	Company	SAME
Address	1300 W. Canal St.	Address	
City State Zip	MKE, WI 53233	City State Zip	
Phone	414-643-4200	Phone	
FAX	414-643-4210	FAX	

Analysis Requested / **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS							PID/FID
S030717A	Cermak Grab 1	3-22-16			X	N	5	Soil	1-meth						X	X						X	X							0
B	Cermak Grab 2														X	X						X	X							0
C	Cermak Grab 3														X	X						X	X							0
D	Cermak Grab 4														X	X						X	X							0
E	Cermak Grab 5														X	X						X	X							0
F	Cermak Grab 6														X	X						X	X							0
G	Trip Blank						1															X								—

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Sun

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
SOzyuscik	1:40 pm	3-23-16			

Received in Laboratory By: [illegible] Time: 10:00 Date: 3/24/16

ATTACHMENT 4

SITE PHOTOGRAPHS

THE SIGMA GROUP
Single Source. Sound Solutions.

Photo Page 1

Photo 1: Lot 4 prior to start of redevelopment / construction activities. View to south; 7/14/2015.

Photo 2: Stockpile of soil removed from Lot 1 during construction of Cermak grocery store (imported crushed concrete pile in background). View to southeast; 3/1/2016.

Freshwater Plaza Lot 4
200 E. Greenfield Avenue, Milwaukee, WI 53204

Sigma Project Number #14160

Photo Page 2

Photo 3: Grab soil sample location #4 in soil stockpile from Lot 1.
View to west; 3/22/2016.

Photo 4: Grab soil sample location #5 from the soil stockpile from Lot 1.
View to northwest; 3/22/2016.

Photo Page 3

Photo 5: Lot 1 soil stockpile beginning to be spread out in left side of photo; crushed concrete stockpile to right is from concrete rubble generated during demolition/pavement removal work (reused for road / parking lot subgrades). View to east; 6/23/2016.

Photo 6: Soil stockpile on Lot 4 completely graded out to subgrade level to east (left) of sidewalk. Clay cap being placed between sidewalk and road curb. View to southeast; 12/28/2016.

Photo Page 4

Photo 7: Interim silty clay cover installation in progress across Lot 4. View to southeast; 05/22/2017.

Photo 8: Interim silty clay cover installed and seeded. View to south-southeast; 11/29/2017.

ATTACHMENT 5

WELL ABANDONMENT FORMS

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Milwaukee
WI Unique Well # of Removed Well: V V 3 8 9
Hicap #: SMW-12
Lattitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N / __ __ ° __ __ . __ __ __ 'W
Method Code (see instructions):
¼/¼ SE ¼ SE
Section: 32
Township: 7 N
Range: 22 ☒ E ☐ W
or Gov't Lot #:
Well Street Address: Freshwater Plaza Lot 4 (Former 200 E. Greenfield Ave.)
Well City, Village or Town: Milwaukee
Well ZIP Code: 53204
Subdivision Name:
Lot #:
Reason For Removal From Service: damaged during construction
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Freshwater Plaza Lot 4
Facility ID (FID or PWS): 341267960
License/Permit/Monitoring #:
Original Well Owner: Wangard Partners
Present Well Owner: Redevelopment Authority of City of Milw.
Mailing Address of Present Owner: 809 N. Broadway
City of Present Owner: Milwaukee
State: WI
ZIP Code: 53202

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 08/07/2014
If a Well Construction Report is available, please attach. ✓
Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):
Formation Type: ☒ Unconsolidated Formation ☐ Bedrock
Total Well Depth From Ground Surface (ft.): 14.9
Casing Diameter (in.): 2
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): 9.7

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☒
Liner(s) removed?	☐	☐	☒
Screen removed?	☐	☒	☐
Casing left in place?	☒	☐	☐
Was casing cut off below surface?	☒	☐	☐
Did sealing material rise to surface?	☒	☐	☐
Did material settle after 24 hours?	☐	☒	☐
If yes, was hole retopped?	☐	☐	☒
If bentonite chips were used, were they hydrated with water from a known safe source?	☒	☐	☐

Required Method of Placing Sealing Material: ☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain):

Sealing Materials: ☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.) ☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " " ☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only: ☒ Bentonite Chips ☐ Bentonite - Cement Grout ☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	14.9		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: The Sigma Group, Inc.
License #:
Date of Filling & Sealing (mm/dd/yyyy): 05/20/2016
Street or Route: 1300 W. Canal St.
Telephone Number: (414) 643-4200
City: Milwaukee
State: WI
ZIP Code: 53233
Signature of Person Doing Work: B Oczynski
Date Signed: 5-24-16

DNR Use Only: Date Received | Noted By | Comments

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

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

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

☐ **Verification Only of Fill and Seal**

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

1. Well Location Information

County: Milwaukee
WI Unique Well # of Removed Well: V N 7 5 8
Hicap #: SVP-10
Lattitude / Longitude (Degrees and Minutes): __ __ ° __ __ . __ __ __ 'N / __ __ ° __ __ . __ __ __ 'W
Method Code (see instructions):
¼/¼ SE ¼ SE or Gov't Lot #
Section: 32
Township: 7 N
Range: 22 ☒ E ☐ W
Well Street Address: 200 E. Greenfield Ave (Former)
Well City, Village or Town: Milwaukee
Well ZIP Code: 53204
Subdivision Name:
Lot #:
Reason For Removal From Service: site construction
WI Unique Well # of Replacement Well: _____

2. Facility / Owner Information

Facility Name: Grede Foundries Inc. (Former)
Facility ID (FID or PWS): 241027 600
License/Permit/Monitoring #:
Original Well Owner: WP Property Acquisitions, LLC
Present Well Owner: Freshwater Plaza Corp.
Mailing Address of Present Owner: 1200 N. Mayfair Rd. Suite 310
City of Present Owner: Milwaukee
State: WI
ZIP Code: 53226

3. Well / Drillhole / Borehole Information

☒ Monitoring Well ☐ Water Well ☐ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 08/07/2014
If a Well Construction Report is available, please attach. ✓

Construction Type: ☒ Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify): _____

Formation Type: ☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.):
Casing Diameter (in.): 2
Lower Drillhole Diameter (in.):
Casing Depth (ft.): 7.8
Was well annular space grouted? ☐ Yes ☒ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet): 8+/-

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

	Yes	No	N/A
Pump and piping removed?	☐	☐	☒
Liner(s) removed?	☐	☐	☒
Screen removed?	☐	☒	☐
Casing left in place?	☒	☐	☐
Was casing cut off below surface?	☒	☐	☐
Did sealing material rise to surface?	☒	☐	☐
Did material settle after 24 hours?	☐	☒	☐
If yes, was hole retopped?	☐	☐	☒
If bentonite chips were used, were they hydrated with water from a known safe source?	☒	☐	☐

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" bentonite chips	Surface	7.8	¼ bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: The Sigma Group, Inc.
License #:
Date of Filling & Sealing (mm/dd/yyyy): 12/12/2015
Street or Route: 1300 W. Canal Street
Telephone Number: (414) 643-4200
City: Milwaukee
State: WI
ZIP Code: 53233
Signature of Person Doing Work: AJK for Stacy Ostuscik
Date Signed: 12/14/15

DNR Use Only
Date Received:
Noted By:
Comments:

ATTACHMENT 6

CONCEPTUAL REDEVELOPMENT SITE PLAN

Freshwater Plaza

1320 S. 1st Street