

February 21, 2022

Ms. Jennifer Dorman
 Remediation and Redevelopment Program
 Wisconsin Department of Natural Resources
 1027 W. St. Paul Avenue
 Milwaukee, WI 53233

Project # 40449

**Subject: Second Groundwater Monitoring Event
 Community Within the Corridor – East Block
 2748 N. 32nd Street, Milwaukee, WI 53210
 BRRTS #: 02-41-263675; FID #: 241025400**

Dear Ms. Dorman:

On behalf of the Community Within the Corridor Limited Partnership (CWC), K. Singh & Associates, Inc. (KSingh) is pleased to submit the results of a second round of groundwater results of the above referenced site. A site location map is on Figure 1 and the monitoring well locations are presented on Figure 2.

Two groundwater monitoring wells were damaged during construction of the facility. MW-4 was a stickup well which was snapped off at the grounds surface sometime in August 2021, and properly abandoned in accordance with NR 141. Documentation of the abandonment of MW-4 was presented in the SIR dated November 2, 2021. In addition, MW-2 was damaged as the flushmount protective pipe cover had one bolt bent and the other two were stripped. This was noticed during a site visit on November 12, 2021. MW-1 has been dry since its installation back in May 5, 2021.

The replacement well (MW-4R) was installed November 29, 2021. The soil boring log, monitoring well construction form and development forms are presented in Attachment A. The location of MW-4R is shown on Figure 2.

Groundwater sampling was conducted for four (4) of the six (6) monitoring wells on November 12, 2021 (MW-5 and MW-6), November 29, 2021 (MW-3) and December 14, 2021 (MW-4R). These wells were sampled for the following parameters.

Well ID	VOCs	SVOCs	PAHs	Metals	Pesticides	Herbicides
MW-3	X	1		1	1	1
MW-4R	X	X		X	1	1
MW-5	X		X	X		
MW-6	X		X	X		

Note: X – sampled and, 1 - not enough water to sample.

Prior to groundwater sampling, depth to water was measured in each monitoring well using a water level indicator and measuring from top of PVC casing. Nomenclature of Soil Probes and Monitoring Wells is summarized in Table 1 and Groundwater Elevation Data is summarized in Table 2. Groundwater is flowing to the west / northwest.

Groundwater samples were collected in accordance with the WDNR's Groundwater Field Sampling Manual following purging and preserved on ice. The groundwater samples were submitted to Eurofins - Test America, Inc., University Park, Illinois using proper chain-of-custody procedures. Chain of Custody records and laboratory groundwater quality analytical results are included in Attachment B. Groundwater quality test results are summarized in Table 3.

On the November 12, 2021 sampling event, NR 140 Preventative Action Limits (PALs) exceedances (0.50 ug/l standard) included Methylene Chloride (MC) in monitoring wells MW-5 and MW-6. The MC concentrations had a "J" flagged value. The result is less than the reporting limit but greater than or equal to the method detection limit and the concentration is an approximate value. MC is a common laboratory artifact and was detected in the Trip Blank sample indicating laboratory contamination. Therefore, we conclude that MC is not present in groundwater. There were no PAHs exceeding the NR 140 PALs in both MW-5 and MW-6. Arsenic was exceeding the NR 140 PAL of 1 ug/l at 1.6 ug/l in MW-6 and selenium was exceeding the NR 140 PAL of 10 ug/l at 26 ug/l in MW-5, but was below the NR Enforcement Standard (ES) of 50 ug/l.

On the November 29, 2021 sampling event, a NR 140 PAL exceedance (85 ug/l standard) included 1,1-Dichloroethane at MW-3 but was below the NR 140 ES of 850 ug/l. In addition, MW-3 included cis-1,2-Dichloroethene at 340 ug/l and Trichloroethene at 26 ug/l greater than NR 140 ES's of 70 ug/l and 5 ug/l, respectively. VOCs in MW-3

On the December 14, 2021 sampling event, there were no exceedances of VOCs above the laboratory's method detection limits in MW-4R. Of the SVOCs Pentachlorophenol (PCP) was at 1,000 ug/l which exceeded the NR 140 ES of 1 ug/l. PCP has uses as insecticides, algicides, herbicides, fungicides and bactericides; and wood preservatives and its source is railroad operations. There were no NR 140 PAL of ES exceedances of the RCRA metals.

No NR 140 ES exceedances are present in the southern portion of the property where manufacturing took place except for PCP in MW-4R related to the railroad. Given that the groundwater table in monitoring well MW-6 within the building is 21 feet below ground surface, soil contamination appears confined to the top four feet below the building, and the building protects interior soil contamination from infiltration, the source of groundwater ES exceedances appears solely related to the former underground storage tanks (BRRTS file # 02-41-263675) on the northern end of the property and the railroad.

A brief comparison of the former chemicals of concern from the former BRRTS #: 03-41-000793 (Jonas Construction – Closed LUST) was performed of the historic MW-2 and the current MW-2 which are/were installed in the same general area within the northern courtyard. The table following shows the relationship between then and now.

Well ID:	Former MW-2	Former MW-2	Current MW-2	
Chemical Parameters	Former Range 2003-2006 (ug/l)	Average 2003-2006 (ug/l)	Newer 2021 (ug/l)	Difference
Tetrachloroethene	<1.0 to <12.5	<5.2	1	Same
Trichloroethene	2.9 to 7.6	4.5	11	Higher
Cis-1,2-Dichloroethene	8.65 to 822	193.1	66	Lower
Benzene	1.59 to 292	78	57	Lower
Ethylbenzene	<6.0 to 118	50.3	160	Higher
Trimethylbenzene	37.9 to 793	196	500	Higher
Naphthalene	<160 to 22	16.3	31	Higher

The comparison demonstrates a mix (decreasing/increasing/same) within the data from MW-2. However, the test results are comparable.

In summary, based on one to two groundwater sampling events, KSingh has made the following conclusions and recommendations:

- MW-2 has been impacted with PVOCs, CVOCs and PAHs which is residual groundwater contamination from the previous BRRTS files.
 - 03-41-000793 (Jonas Construction – Closed LUST), this case was opened on June 8, 1990, and was closed on February 14, 2007, with continuing obligations, and
 - 02-41-263675 (Formerly Wisconsin Industries Pension & Trust) in which this case was opened on January 11, 2001 and was closed on August 26, 2008 with continuing obligations.
 - A comparison between MW-2 from then and now shows a mix (decreasing/increasing/same) of data.
- MW-3 detected CVOCs at concentrations over the NR140 PAL and ES and which will require additional monitoring. The source of contamination in MW-3 is related to BRRTS file # 02-41-263675 (Formerly Wisconsin Industries Pension & Trust).
- MW-4R detected pentachlorophenol (PCP) exceeding the NR 140 ES which is located on the eastern portion of the site adjacent to the Railroad Right-of-Way. PCP is a localized railroad-based contaminant.
- MW-5 and MW-6 identified selenium and lead exceedance above the NR 140 PAL, but below the NR 140 ES. As concentrations of metals are between the NR 140 PAL and NR 140 ES, KSingh plans on pursuing an exemption request pursuant to NR 140.28.
- The CVOC groundwater impacts remain confined to the northern one-third of the subject property and the southern two-thirds of the subject property have been free of CVOC which is consistent with the SIR groundwater data. CVOCs are related to BRRTS file # 02-41-263675 (Formerly Wisconsin Industries Pension & Trust).
- No NR 140 ES exceedances have been detected that are related to former industrial operations on the southern two-thirds of the site.
- KSingh recommends one more round of groundwater sampling for the Spring of 2022. Additional monitoring will be assessed after reviewing the data. In addition, to the SIWP sampling parameters for groundwater; Polychlorinated Biphenyls (PCBs) and 1,4-dioxane in all wells and Per- and poly-fluoroalkyl substances (PFAS) in MW-6 will be added to the list of parameters.

Please contact us if you have any questions.

Sincerely,
K. SINGH & ASSOCIATES, INC.



Daniel K. Pelczar, CPG, P.G.
Senior Geologist



Robert T. Reineke, P.E.
Project Manager



Pratap N. Singh, Ph.D., P.E.
Principal Engineer

cc: Shane LaFave / Roers Companies
Que El-Amin / Scott Crawford, Inc.

Attachments:

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|--------------|--|
| Figure 1 | Site Location Map |
| Figure 2 | Locations of Soil Probes, Monitoring Wells, Sub-Slab Vapor and Sub-Slab Soil Samples |
| Table 1 | Nomenclature of Soil Probes and Monitoring wells |
| Table 2 | Groundwater Elevation Data |
| Table 3 | Groundwater Quality Test Results |
| Attachment A | Soil boring log, monitoring well construction and development forms (MW-4R) |
| Attachment B | Groundwater Analytical Results |

FIGURES

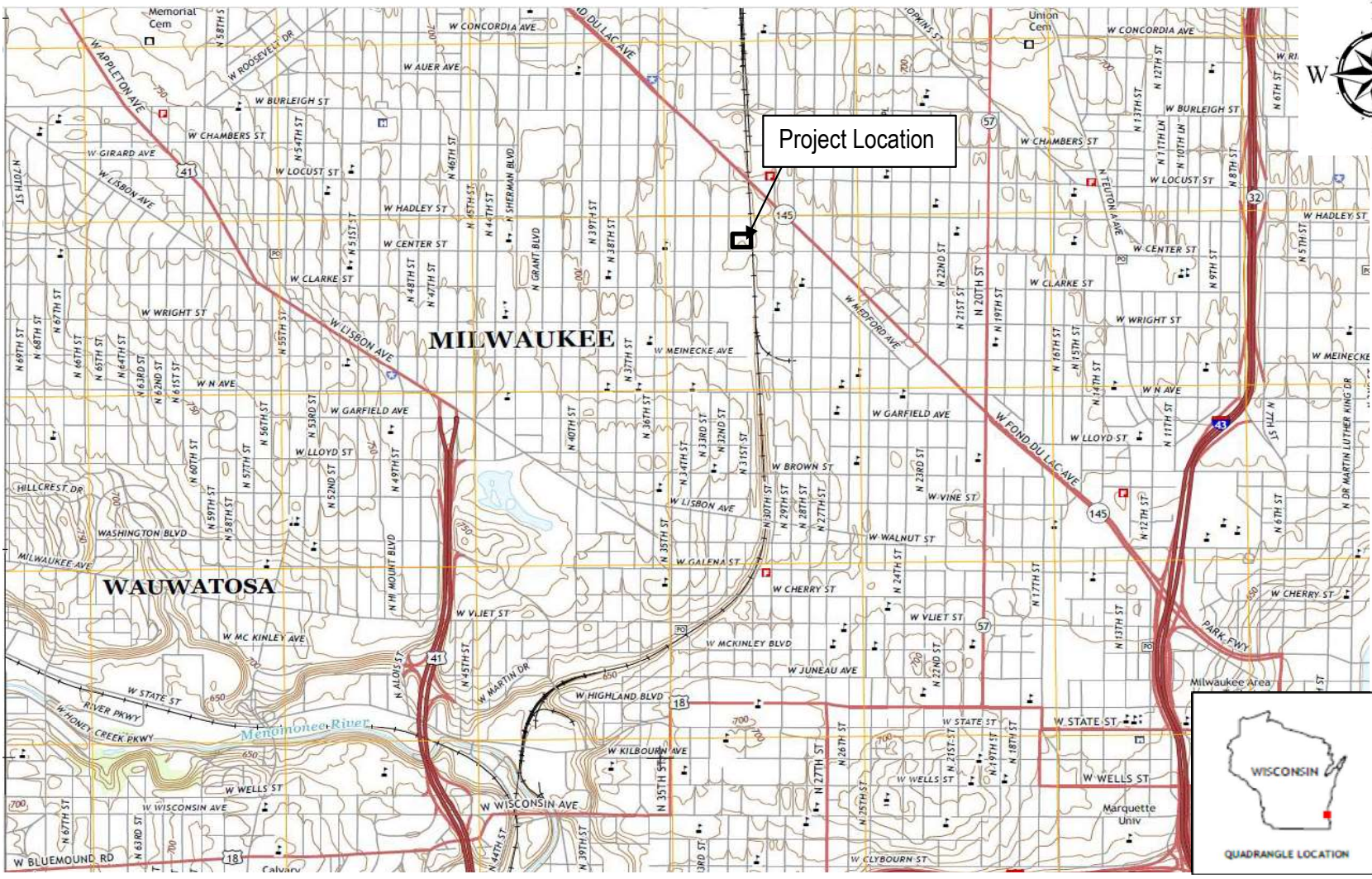
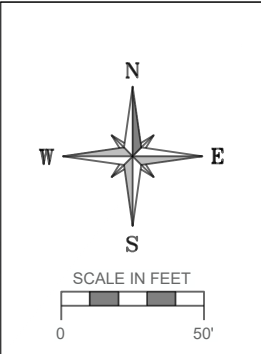


Figure 1. Topographic Map of Project Location from 2016 Milwaukee, WI 7.5-Minute Series Map Scale 1: 24,000



FLOOR FINISH LEGEND

[Symbol]	ATH-1	ATHLETIC FLOORING - FLEXIBLE / NON-ADHERED
[Symbol]	CPT-1	BROADLOOM CARPET (UNIT BEDROOMS)
[Symbol]	CT-1	CERAMIC TILE (UNIT BATHROOMS W/ ROLL-IN SHOWERS ONLY)
[Symbol]	ERF-1	EPOXY RESINIOUS FLOORING
[Symbol]	EXTG-WD	EXISTING WOOD FLOORING TO REMAIN IN PLACE & BE REFINISHED
[Symbol]	EXTG-WS	EXISTING CONCRETE SLAB WITH WEATHER SEAL
[Symbol]	LVT-1	LUXURY VINYL TILE (UNIT BATHROOMS)
[Symbol]	PC-1	POLISHED CONCRETE
[Symbol]	RF-1	RUBBER FLOORING
[Symbol]	SC-1	SEALED CONCRETE
[Symbol]	WD-SV	SALVAGED WOOD - REMOVED, REINSTALLED AND REFINISHED (SALVAGED WOOD WILL BE REINSTALLED IN CORRIDORS FIRST THEN CONTINUE INTO UNITS - IF THERE IS NOT ENOUGH QUANTITY - INSTALL NEW WOOD FLOORING TO MATCH HISTORIC SIZE)

- LEGEND**
- Planned Underground Plumbing
 - Underground Tunnel
 - Historic Soil Probe and Monitoring Well Locations
 - Previous Soil Probe, Hand Auger, and Temp. Well Locations (9)
 - Monitoring Well Locations (6)
 - Soil Probe Locations (13)
 - Sub-Slab Soil Sampling Locations (28)
 - Sub-Slab Vapor Sampling Locations (51)
 - Air Sampling Locations (5)
 - Approximate Underground Storage Tank Location
- NOTE:**
- COMBINATION OF EXISTING AND PROPOSED PLUMBING

- | | | | |
|----------|----------------------------|----------|---------------------------|
| [Symbol] | EX. AIR CONDITIONER | [Symbol] | EX. UG. GAS |
| [Symbol] | EX. GAS VALVE | [Symbol] | EX. UG. ELECTRIC |
| [Symbol] | EX. GAS METER | [Symbol] | EX. OVERHEAD WIRES |
| [Symbol] | EX. ELECTRIC METER | [Symbol] | EX. BUREAU OF ELEC. SERV. |
| [Symbol] | EX. ELECTRIC PEDESTAL | [Symbol] | EX. UG. COMBINED SEWER |
| [Symbol] | EX. ELECTRIC MANHOLE | [Symbol] | EX. CITY UG. CONDUIT/COMM |
| [Symbol] | EX. ELECTRIC TRANSFORMER | [Symbol] | EX. SANITARY SEWER (SAN) |
| [Symbol] | EX. POWER / TELEPHONE POLE | [Symbol] | EX. STORM SEWER (STO) |
| [Symbol] | EX. LIGHT POLE | [Symbol] | EX. UG. COMMUNICATIONS |
| [Symbol] | EX. TELEPHONE PEDESTAL | [Symbol] | EX. UG. TELEPHONE |
| [Symbol] | EX. STORM MANHOLE | [Symbol] | EX. UG. FIBER OPTICS |
| [Symbol] | EX. CATCH BASIN SQUARE | [Symbol] | EX. UG. CABLE TELEVISION |
| [Symbol] | EX. CLEANOUT | [Symbol] | EX. UG. WATER MAIN |
| [Symbol] | EX. SANITARY MANHOLE | | |
| [Symbol] | EX. UNKNOWN MANHOLE | | |
| [Symbol] | EX. COMBINED SEWER MANHOLE | | |
| [Symbol] | EX. TELEPHONE MANHOLE | | |
| [Symbol] | EX. WATER VALVE | | |
| [Symbol] | EX. HYDRANT | | |

- SAMPLE ID CODES:**
- EB = EAST BLOCK
 - B = BORING
 - TW = TEMPORARY WELL
 - MW = MONITORING WELL
 - SS = SUB-SLAB
 - VE = VAPOR EXTRACTION POINT
 - IB = INTERIOR BORING
 - RTS = REPRESENTATIVE TRENCH SAMPLE
 - IA = INDOOR AIR
 - OA = OUTDOOR AIR

CONSULTANT

CONSULTANT

CONSULTANT

PROJECT TITLE: SITE INVESTIGATION REPORT
COMMUNITY WITHIN THE CORRIDOR
2748 N. 32nd Street
MILWAUKEE, WI 53210
PROJECT NUMBER: 40449

CLIENT:
COMMUNITY WITHIN THE CORRIDOR LIMITED
PARTNERSHIP

REVISIONS	DATE	DESCRIPTION

DRAWN BY: AMZ DATE: 02/21/2022
CHECKED BY: DKP DATE: 02/21/2022

SHEET TITLE
LOCATIONS OF SOIL PROBES,
MONITORING WELL, AND SUB-SLAB
VAPOR AND SUB-SLAB SOIL SAMPLES

TABLES

TABLE 1
 NOMENCLATURE OF SOIL PROBES AND MONITORING WELLS
 COMMUNITY WITHIN THE CORRIDOR - WEST BLOCK
 MILWAUKEE, WI
 PROJECT NUMBER: 40449

Description	State Plane Coordinates		Elevation (feet, MSL)	Drilling Methods	Total Depth (ft.)	Comments
	Northing	Easting				
EB-B-17/MW-1	396545.9	2546731.8	686.59	2" Geoprobe & 4-1/4" HSA	10	
EB-B-18/MW-2	396456.8	2546837.7	685.93	2" Geoprobe & 4-1/4" HSA	10	
EB-B-19/MW-3	396441.7	2547023.0	684.66	2" Geoprobe & 4-1/4" HSA	25	Auger to 20'
EB-B-20/MW-4	396188.4	2547036.3	685.10	2" Geoprobe & 4-1/4" HSA	28.5	
EB-B-20A/MW-4R	396125	2547027	684.35	2" Geoprobe & 4-1/4" HSA	29.5	Replacement
EB-B-21/MW-5	396009.8	2546832.2	680.03	2" Geoprobe & 4-1/4" HSA	10	
EB-B-22	---	---	---	2" Geoprobe	10	
EB-B-23	---	---	---	2" Geoprobe	10	
EB-B-24	---	---	---	2" Geoprobe	10	
EB-B-25	396293.21	2546905.109	685.75	2" Geoprobe	18	
EB-B-26	396336.987	2547027.404	685.21	2" Geoprobe	10	
EB-B-27/MW-6	396191.4	2546809.6	676.10	2" Geoprobe & 4-1/4" HSA	26.5	GP to 24 ft
EB-B-28	396252.544	2546926.214	675.88	2" Geoprobe	10	
EB-B-29	396207.21	2546749.472	675.08	2" Geoprobe	10	
EB-B-30	396092.045	2546745.35	676.02	2" Geoprobe	10	
EB-B-31	395965.142	2546751.54	675.96	2" Geoprobe	10	
EB-B-32	396062.346	2546909.51	676.04	2" Geoprobe	10	
EB-B-33	396152.167	2546951.398	676.09	2" Geoprobe	10	
EB-B-34	396106.146	2546947.393	676.06	2" Geoprobe	7.5	Refusal
EB-B-35	395960.144	2546816.877	676.78	2" Geoprobe	10	

TABLE 2
GROUNDWATER ELEVATION DATA
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40449

Well ID	Units	EB-MW-1	EB-MW-2	EB-MW-3	EB-MW-4	EB-MW-4R	EB-MW-5	EB-MW-6						
Date Installed	---	5/5/2021	6/3/2021	7/21/2021	7/21/2021	11/29/2021	6/3/2021	7/20/2021						
Ground Elevation	Feet	686.592	685.932	684.66	685.1	684.35	680.026	676.102						
TOC Elevation	Feet	689.625	685.512	687.727	688.074	686.60	682.848	675.713						
TOS Elevation	Feet	677.662	681.01	674.66	671.6	674.35	673.946	664.602						
BOS Elevation	Feet	662.662	666.01	664.66	656.60	659.35	663.94	649.60						
Screen Height	Feet	15	10	15	15	15	10	15						
DATE	DTW (TOC)	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION	DTW	GROUNDWATER ELEVATION
5/18/2021	DRY	---	---	---	---	---	---	---	---	---	---	---	---	---
6/10/2021	DRY	---	---	---	---	---	---	---	---	---	---	---	---	---
6/22/2021	DRY	---	7.97	677.54	---	---	---	---	---	12.51	670.34	---	---	
6/30/2021	DRY	---	7.75	677.76	---	---	---	---	---	12.54	670.31	---	---	
7/20/2021	DRY	---	7.99	677.52	---	---	---	---	---	12.74	670.11	---	---	
7/29/2021	DRY	---	8.12	677.39	DRY	---	27.21	660.86	---	12.87	669.98	24.89	650.82	
8/19/2021	DRY	---	7.85	677.66	22.44	665.29	Broken/Damaged		---	11.50	671.35	23.80	651.91	
8/25/2021	DRY	---	---	---	22.44	665.29	Broken/Damaged		---	---	---	23.71	652.00	
11/12/2021	DRY	---	Broken/Damaged		22.69	665.04	Broken/Damaged		---	12.43	670.42	21.51	654.20	
11/29/2021	---	---	Broken/Damaged		22.69	665.04	Broken/Damaged		---	---	---	---	---	
12/13/2021	---	---	Broken/Damaged		---	---	Broken/Damaged		25.81	660.79	---	---	---	

**TABLE 3
GROUNDWATER QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40449**

Sample Date	Units	EPA Method	NR 140 PAL	NR 140 ES	EB-B-18/MW-2 ¹	EB-MW-3	EB-B-20/MW-4	EB-B-20A/MW-4R	EB-B-21/MW-5	EB-B-21/MW-5	EB-B-27/MW-6	EB-B-27/MW-6	DUP-1 ²	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank
					6/30/2021	11/29/2021	7/29/2021	12/14/2021	6/30/2021	11/12/2021	8/25/2021	11/12/2021	11/12/2021	6/30/2021	7/29/2021	8/25/2021	11/21/2021	11/29/2021
Volatile Organic Compounds (VOCs)																		
1,1,1,2-Tetrachloroethane	ug/L	8260C	7	70	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,1,1-Trichloroethane	ug/L	8260C	40	200	10	1.1	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
1,1,2,2-Tetrachloroethane	ug/L	8260C	0.02	0.2	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
1,1,2-Trichloroethane	ug/L	8260C	0.5	5	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
1,1-Dichloroethane	ug/L	8260C	85	850	32	330	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,1-Dichloroethene	ug/L	8260C	0.7	7	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,1-Dichloropropene	ug/L	8260C	---	---	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30
1,2,3-Trichlorobenzene	ug/L	8260C	---	---	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
1,2,3-Trichloropropane	ug/L	8260C	12	60	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
1,2,4-Trichlorobenzene	ug/L	8260C	14	70	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
1,2,4-Trimethylbenzene*	ug/L	8260C	96	480	350	<0.36	<0.36	<0.36	0.45 J	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,2-Dibromo-3-Chloropropane	ug/L	8260C	0.02	0.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
1,2-Dibromoethane	ug/L	8260C	0.005	0.05	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-Dichlorobenzene	ug/L	8260C	60	600	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
1,2-Dichloroethane	ug/L	8260C	0.5	5	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
1,2-Dichloropropane	ug/L	8260C	0.5	5	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
1,3,5-Trimethylbenzene*	ug/L	8260C	96	480	150	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25
1,3-Dichlorobenzene	ug/L	8260C	60	600	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
1,3-Dichloropropane	ug/L	8260C	---	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
1,4-Dichlorobenzene	ug/L	8260C	15	75	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
2,2-Dichloropropane	ug/L	8260C	---	---	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44
2-Chlorotoluene	ug/L	8260C	---	---	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31	<0.31
4-Chlorotoluene	ug/L	8260C	---	---	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35	<0.35
Benzene	ug/L	8260C	0.5	5	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15
Bromobenzene	ug/L	8260C	---	---	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
Bromochloromethane	ug/L	8260C	---	---	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43	<0.43
Bromodichloromethane	ug/L	8260C	0.06	0.6	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Bromoform	ug/L	8260C	0.44	4.4	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48
Bromomethane	ug/L	8260C	1	10	<0.80 *+	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80	<0.80
Carbon tetrachloride	ug/L	8260C	0.5	5	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38	<0.38
Chlorobenzene	ug/L	8260C	---	---	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Chloroethane	ug/L	8260C	80	400	10	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51	<0.51
Chloroform	ug/L	8260C	0.6	6	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Chloromethane	ug/L	8260C	3	30	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32
cis-1,2-Dichloroethene	ug/L	8260C	7	70	66	340	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
cis-1,3-Dichloropropene	ug/L	8260C	0.04	0.4	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
Dibromochloromethane	ug/L	8260C	6	60	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
Dibromomethane	ug/L	8260C	---	---	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27
Dichlorodifluoromethane	ug/L	8260C	200	1,000	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67	<0.67
Ethylbenzene	ug/L	8260C	140	700	160	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Hexachlorobutadiene	ug/L	8260C	0.1	1	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45
Diisopropyl ether	ug/L	8260C	---	---	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28
Isopropylbenzene	ug/L	8260C	---	---	32	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Methyl tert-butyl ether	ug/L	8260C	12	60	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
Methylene Chloride	ug/L	8260C	0.5	5	8.8	<1.6	<1.6	<1.6	11	3.3 J	<1.6	3.5 J	3.5 J	9.8	<1.6	<1.6	3.5 J	4.1 J
Naphthalene	ug/L	8260C	10	100	31	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34	<0.34
n-Butylbenzene	ug/L	8260C	---	---	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
n-Propylbenzene	ug/L	8260C	---	---	58	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41	<0.41
p-Isopropyltoluene	ug/L	8260C	---	---	45	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36
sec-Butylbenzene	ug/L	8260C	---	---	36	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Styrene	ug/L	8260C	10	100	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39	<0.39
tert-Butylbenzene	ug/L	8260C	---	---	4.8	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Tetrachloroethene	ug/L	8260C	0.5	5	1	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37
Toluene	ug/L	8260C	160	800														

TABLE 3
GROUNDWATER QUALITY TEST RESULTS
COMMUNITY WITHIN THE CORRIDOR - EAST BLOCK
MILWAUKEE, WI
PROJECT NUMBER: 40449

Polycyclic Aromatic Hydrocarbons (PAHs)																
1-Methylnaphthalene	ug/L	8270D	---	---	2.7	---	---	---	<0.23	<0.22	---	<0.24	---	---	---	---
2-Methylnaphthalene	ug/L	8270D	---	---	1.9	---	---	---	<0.050	<0.048	---	0.11 J	---	---	---	---
Acenaphthene	ug/L	8270D	---	---	0.56 J	---	---	---	<0.24	<0.23	---	<0.24	---	---	---	---
Acenaphthylene	ug/L	8270D	---	---	<0.20	---	---	---	<0.20	<0.20	---	<0.21	---	---	---	---
Anthracene	ug/L	8270D	600	3000	0.31 J	---	---	---	<0.25	<0.25	---	<0.26	---	---	---	---
Benzo[a]anthracene	ug/L	8270D	---	---	0.5	---	---	---	<0.043	<0.042	---	<0.045	---	---	---	---
Benzo[a]pyrene	ug/L	8270D	0.02	0.2	0.49	---	---	---	<0.075	<0.073	---	<0.078	---	---	---	---
Benzo[b]fluoranthene	ug/L	8270D	0.02	0.2	0.56	---	---	---	<0.061	<0.060	---	<0.064	---	---	---	---
Benzo[g,h,i]perylene	ug/L	8270D	---	---	<0.28	---	---	---	<0.29	<0.28	---	<0.30	---	---	---	---
Benzo[k]fluoranthene	ug/L	8270D	---	---	<0.048	---	---	---	<0.049	<0.048	---	<0.051	---	---	---	---
Chrysene	ug/L	8270D	0.02	0.2	0.7	---	---	---	<0.052	<0.051	---	<0.054	---	---	---	---
Dibenz(a,h)anthracene	ug/L	8270D	---	---	<0.038	---	---	---	<0.039	<0.038	---	<0.040	---	---	---	---
Fluoranthene	ug/L	8270D	80	400	1.4	---	---	---	<0.35	<0.34	---	<0.36	---	---	---	---
Fluorene	ug/L	8270D	80	400	0.46 J	---	---	---	<0.19	<0.18	---	<0.19	---	---	---	---
Indeno[1,2,3-cd]pyrene	ug/L	8270D	---	---	0.27	---	---	---	<0.057	<0.056	---	<0.059	---	---	---	---
Naphthalene	ug/L	8270D	10	100	14	---	---	---	<0.24	<0.23	---	<0.24	---	---	---	---
Phenanthrene	ug/L	8270D	---	---	1.4	---	---	---	<0.23	<0.22	---	<0.24	---	---	---	---
Pyrene	ug/L	8270D	50	250	1.5	---	---	---	<0.32	<0.32	---	<0.34	---	---	---	---
Dissolved RCRA Metals																
Arsenic	ug/L	6020A	1	10	---	---	---	0.92 J	---	0.65 J	4.5 B	1.6	---	---	---	---
Barium	ug/L	6020A	400	2000	---	---	---	140 B	---	150	150	49	---	---	---	---
Cadmium	ug/L	6020A	0.5	5	---	---	---	<0.17	---	<0.17	<0.17	<0.17	---	---	---	---
Chromium	ug/L	6020A	10	100	---	---	---	<1.1	---	2.6 J	<1.1	<1.1	---	---	---	---
Lead	ug/L	6020A	1.5	15	---	---	---	<0.19	---	1.3	0.34 J B	0.21 J	---	---	---	---
Selenium	ug/L	6020A	10	50	---	---	---	4.8	---	26	2.5	<0.98	---	---	---	---
Silver	ug/L	6020A	10	50	---	---	---	<0.12	---	<0.12	<0.12	<0.12	---	---	---	---
Mercury	ug/L	7470A	0.2	2	---	---	---	<0.098	---	<0.098	<0.098	<0.098	---	---	---	---

Notes:

Italics = Exceeds NR 140 Preventive Action Limits (PAL)

Bold = Exceeds NR 140 Enforcement Limits (ES)

--- No Established Standards

* = The combined total of 1,2,4 and 1,3,5-TMB

*+ = LCS and/or LCSD is outside acceptance limits, high biased

*- = LCS and/or LCSD is outside acceptance limits, low biased

J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

B = Compound was found in the blank and sample

Methylene Chloride present in EB-MW-2 and EB-MW-5 is a lab artifact, indicated by a detection in the 7/20/2021 trip blank

1 - Incorrectly labeled in the analytical lab report as EB-B-17/MW-2

2 - Dup-1 is of MW-6

ATTACHMENTS

ATTACHMENT A

Soil Boring Log, Monitoring Well Construction and Development Forms (MW-4R)

SOIL BORING LOG

PROJECT NAME: CWC - East Block

GROUND SURFACE ELEVATION: 684.35

DATE BEGAN: 11-29-2021

DRILL EQUIP: Geoprobe 7822DT

NORTH: 396125.447

DATE FINISHED: 11-29-2021

DRILLER:

EAST: 2547026.881

PROJECT NO: 40449

DRILLING METHOD: HSA

CHECKED BY: Daniel Pelczar

BORING NO: EB-B-20A/MW-4R


CONTRACTOR: On-Site Environmental Services, Inc.

FIELD ENGINEER: Aileen Zebrowski

COUNTY: Milwaukee

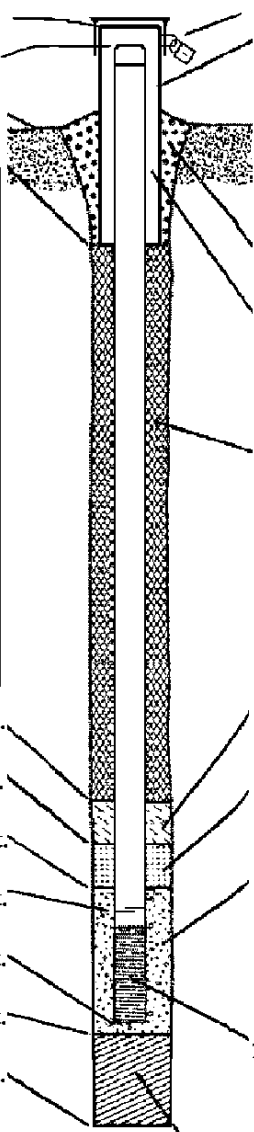
Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q _c , tsf	Remarks	PID (ppm)
684.35	0.0	FILL - Gravelly sand (SW), brown, dry		FI			SS 1	20 / 60						14.9
680.0	5.0	FILL - Silty clay (CL), soft to medium, moist, few sand, few gravel, trace organics		FI								0.25		
		SILTY CLAY (CL) - Stiff, orangey brown, moist, trace gravel, trace sand		CL			SS 2	32 / 60				1.75		
675.0	10.0	GRAVELLY SAND (SW) - brown, moist, medium-grained, sub-angular to sub-rounded		SW								2.75		
		SILTY CLAY (CL) - Very stiff, reddish to greenish brown, moist, little sand, trace gravel		CL										
		SILTY CLAY (CL) - Medium to stiff, orangy brown, moist, little gravel, trace sand		CL			SS 3	39 / 60				1.0		2.4
		SAND (SW) - Brown, saturated,		SW										

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)
670.0	15.0	medium-grained, sub-rounded		CL			SS 4	41 / 60				1.0		
		SILTY CLAY (CL) - Medium to hard, gray, moist, trace gravel, trace sand										4.5		
665.0	20.0													
		SAND (SW) - Brown, saturated, medium-grained, sub-rounded		SW			SS 5	31 / 60				1.75		
660.0	25.0			CL			SS 6	21 / 60				>4.5		
		SILTY CLAY (CL) - Stiff to hard, gray to dark gray, saturated, trace gravel, trace sand												
655.0	30.0													

Elevation (FT)	Depth (FT)	Description	Graphic Profile	USCS	Well Screen	N-Value	Sample Type	Recovered (Inches)	Moisture Content %	Liquid Limit (LL)	Plastic Limit (PL)	Compressive Strength q, tsf	Remarks	PID (ppm)
650.0	35.0	End of Boring at 33 ft. Converted to EB-MW-4R.					SS 7	27 / 36						
645.0	40.0													
640.0	45.0													

Facility/Project Name Community Within the Corridor East Block		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> S. <input type="checkbox"/> E. <input type="checkbox"/> W.		Well Name EB-MW-4R	
Facility License, Permit or Monitoring No. 02-41-263675		Local Grid Origin <input type="checkbox"/> (estimated: <input type="checkbox"/>) or Well Location <input type="checkbox"/> Lat. " ' " Long. " ' " or " "		Wis. Unique Well No. <u>WB139</u> DNR Well ID No. _____	
Facility ID <u>241025400</u>		St. Plane <u>396125</u> ft. N, <u>2547027</u> ft. E. S/C/N		Date Well Installed <u>11 / 29 / 2021</u> m m d d y y y y	
Type of Well Well Code <u>11</u> / MW		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first, last) and Firm _____	
Distance from Waste/Source _____ ft.		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known		On-Site Environmental _____	
Enf. Stds. Apply <input checked="" type="checkbox"/>		Gov. Lot Number _____			

A. Protective pipe, top elevation <u>687</u> ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>686.60</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>4.0</u> in. b. Length: <u>5.0</u> ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> _____ d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
C. Land surface elevation <u>684.35</u> ft. MSL	3. Surface seal: Bentonite <input checked="" type="checkbox"/> 30 Concrete <input type="checkbox"/> 01 Other <input type="checkbox"/> _____
D. Surface seal, bottom _____ ft. MSL or _____ ft.	4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/> _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. _____ Ft ³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
13. Sieve analysis performed? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input checked="" type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> _____
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> _____	7. Fine sand material: Manufacturer, product name & mesh size a. <u>Red Flint #40</u> b. Volume added _____ ft ³
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	8. Filter pack material: Manufacturer, product name & mesh size a. <u>Red Flint #15</u> b. Volume added _____ ft ³
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u>NA</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> _____
17. Source of water (attach analysis, if required): <u>NA</u>	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____ b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>15.0</u> ft.
E. Bentonite seal, top <u>684.35</u> ft. MSL or <u>0</u> ft.	11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/> _____
F. Fine sand, top <u>678.35</u> ft. MSL or <u>6</u> ft.	
G. Filter pack, top <u>676.35</u> ft. MSL or <u>8</u> ft.	
H. Screen joint, top <u>674.35</u> ft. MSL or <u>10</u> ft.	
I. Well bottom <u>659.35</u> ft. MSL or <u>25</u> ft.	
J. Filter pack, bottom <u>658.85</u> ft. MSL or <u>25.5</u> ft.	
K. Borehole, bottom <u>658.85</u> ft. MSL or <u>25.5</u> ft.	
L. Borehole, diameter <u>8.25</u> in.	
M. O.D. well casing <u>2.25</u> in.	
N. I.D. well casing <u>2.0</u> in.	



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

Signature _____ Firm K. Singh & Associates, Inc.

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

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

Facility/Project Name Community Within the Corridor East Block	County Name Milwaukee	Well Name EB-MW-4R
Facility License, Permit or Monitoring Number 02-41-263675	County Code __	Wis. Unique Well Number WB139
		DNR Well ID Number __

1. Can this well be purged dry? Yes No

2. Well development method

surged with bailer and bailed	<input checked="" type="checkbox"/> 4 1
surged with bailer and pumped	6 1
surged with block and bailed	4 2
surged with block and pumped	6 2
surged with block, bailed and pumped	7 0
compressed air	2 0
bailed only	1 0
pumped only	5 1
pumped slowly	5 0
Other _____	_____

3. Time spent developing well _____ 25 _____ min.

4. Depth of well (from top of well casing) _____ 28.01 _____ ft.

5. Inside diameter of well _____ 2 . 0 _____ in.

6. Volume of water in filter pack and well casing _____ 24 . 4 _____ gal.

7. Volume of water removed from well _____ 2 . 0 _____ gal.

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

9. Source of water added NA

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

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. _____ 25 . 81 _____ ft.	_____ 27 . 55 _____ ft.
Date	b. <u>12</u> / <u>13</u> / <u>2021</u>	<u>12</u> / <u>13</u> / <u>2021</u>
	m m d d y y y y	m m d d y y y y
Time	c. <u>12</u> : <u>35</u> _____ <input checked="" type="checkbox"/> p.m.	<u>1</u> : <u>00</u> _____ <input checked="" type="checkbox"/> p.m.
	a.m.	<input checked="" type="checkbox"/> a.m.
12. Sediment in well bottom	0.04 inches	_____ inches
13. Water clarity	Clear 1 0 Turbid <input checked="" type="checkbox"/> 1 5 (Describe) <u>Light Brown</u>	Clear 2 0 Turbid <input checked="" type="checkbox"/> 2 5 (Describe) <u>Light Brown</u>

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

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

15. COD _____ mg/l _____ mg/l

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

First Name: Nicholas Last Name: Bach

Firm: K. Singh & Associates, Inc.

17. Additional comments on development:

Site Address: 2748 N. 32nd Street, Milwaukee, WI 53210

Name and Address of Facility Contact/Owner/Responsible Party

First Name: Shane Last Name: Lafave

Facility/Firm: Roers Companies

Street: 110 Cheshire Lane, Suite 120

City/State/Zip: Minnetonka, MN 55305

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

Signature: _____

Print Name: Nicholas Bach

Firm: K. Singh & Associates, Inc.

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

ATTACHMENT B

Groundwater Analytical Results

ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-208388-1
Client Project/Site: CWC - East Block - 40449

For:
K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke



Authorized for release by:
12/1/2021 3:24:05 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Job ID: 500-208388-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-208388-1

Comments

No additional comments.

Receipt

The samples were received on 11/13/2021 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was -0.4° C.

GC/MS VOA

Method 8260B: Methylene chloride was detected in the following samples: MW-5 (500-208388-1), MW-6 (500-208388-2), Dup-1 (500-208388-3) and Trip Blank (500-208388-4). The method blank associated with these samples was below the reporting limit for Methylene chloride. Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The laboratory control sample (LCS) for 629266 recovered outside control limits for Chloroethane. This analyte was biased low in the LCS and was not detected in the associated samples; therefore, the data have been reported. MW-5 (500-208388-1), MW-6 (500-208388-2), Dup-1 (500-208388-3) and Trip Blank (500-208388-4)

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

GC/MS Semi VOA

Method 8270D: Perylene-d12 Internal standard (ISTD) response for the following samples were outside of acceptance limits: MW-5 (500-208388-1) and MW-6 (500-208388-2). Analytes associated to this internal standard were non-detect; therefore, re-analysis was not performed.

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

Metals

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

Organic Prep

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

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-5

Lab Sample ID: 500-208388-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.3	J	5.0	1.6	ug/L	1		8260B	Total/NA
Arsenic	0.65	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	150		2.5	0.73	ug/L	1		6020A	Dissolved
Chromium	2.6	J	5.0	1.1	ug/L	1		6020A	Dissolved
Lead	1.3		0.50	0.19	ug/L	1		6020A	Dissolved
Selenium	26		2.5	0.98	ug/L	1		6020A	Dissolved

Client Sample ID: MW-6

Lab Sample ID: 500-208388-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.5	J	5.0	1.6	ug/L	1		8260B	Total/NA
2-Methylnaphthalene	0.11	J	1.6	0.051	ug/L	1		8270D	Total/NA
Arsenic	1.6		1.0	0.23	ug/L	1		6020A	Dissolved
Barium	49		2.5	0.73	ug/L	1		6020A	Dissolved
Lead	0.21	J	0.50	0.19	ug/L	1		6020A	Dissolved

Client Sample ID: Dup-1

Lab Sample ID: 500-208388-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.5	J	5.0	1.6	ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-208388-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	3.5	J	5.0	1.6	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
FILTRATION	Sample Filtration	None	TAL CHI

Protocol References:

None = None

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-208388-1	MW-5	Ground Water	11/12/21 11:30	11/13/21 09:50
500-208388-2	MW-6	Ground Water	11/12/21 10:20	11/13/21 09:50
500-208388-3	Dup-1	Ground Water	11/12/21 00:00	11/13/21 09:50
500-208388-4	Trip Blank	Water	11/12/21 00:00	11/13/21 09:50

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-5

Lab Sample ID: 500-208388-1

Date Collected: 11/12/21 11:30

Matrix: Ground Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46	F1	1.0	0.46	ug/L			11/22/21 16:09	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/22/21 16:09	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/22/21 16:09	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/22/21 16:09	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/22/21 16:09	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/22/21 16:09	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/22/21 16:09	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/22/21 16:09	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/22/21 16:09	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:09	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/22/21 16:09	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/22/21 16:09	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/22/21 16:09	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/22/21 16:09	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:09	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/22/21 16:09	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:09	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/22/21 16:09	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/22/21 16:09	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/22/21 16:09	1
Benzene	<0.15		0.50	0.15	ug/L			11/22/21 16:09	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:09	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/22/21 16:09	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/22/21 16:09	1
Bromoform	<0.48		1.0	0.48	ug/L			11/22/21 16:09	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/22/21 16:09	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/22/21 16:09	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
Chloroethane	<0.51	F1 *-	1.0	0.51	ug/L			11/22/21 16:09	1
Chloroform	<0.37		2.0	0.37	ug/L			11/22/21 16:09	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/22/21 16:09	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/22/21 16:09	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/22/21 16:09	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/22/21 16:09	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/22/21 16:09	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/22/21 16:09	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/22/21 16:09	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/22/21 16:09	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/22/21 16:09	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
Methylene Chloride	3.3	J	5.0	1.6	ug/L			11/22/21 16:09	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/22/21 16:09	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/22/21 16:09	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/22/21 16:09	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-5

Lab Sample ID: 500-208388-1

Date Collected: 11/12/21 11:30

Matrix: Ground Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:09	1
Styrene	<0.39		1.0	0.39	ug/L			11/22/21 16:09	1
tert-Butylbenzene	<0.40	F1	1.0	0.40	ug/L			11/22/21 16:09	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/22/21 16:09	1
Toluene	<0.15		0.50	0.15	ug/L			11/22/21 16:09	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/22/21 16:09	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/22/21 16:09	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/22/21 16:09	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/22/21 16:09	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/22/21 16:09	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/22/21 16:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		11/22/21 16:09	1
4-Bromofluorobenzene (Surr)	89		72 - 124		11/22/21 16:09	1
Dibromofluoromethane (Surr)	115		75 - 120		11/22/21 16:09	1
Toluene-d8 (Surr)	94		75 - 120		11/22/21 16:09	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.22		1.5	0.22	ug/L		11/16/21 07:09	11/17/21 19:49	1
2-Methylnaphthalene	<0.048		1.5	0.048	ug/L		11/16/21 07:09	11/17/21 19:49	1
Acenaphthene	<0.23		0.74	0.23	ug/L		11/16/21 07:09	11/17/21 19:49	1
Acenaphthylene	<0.20		0.74	0.20	ug/L		11/16/21 07:09	11/17/21 19:49	1
Anthracene	<0.25		0.74	0.25	ug/L		11/16/21 07:09	11/17/21 19:49	1
Benzo[a]anthracene	<0.042		0.15	0.042	ug/L		11/16/21 07:09	11/17/21 19:49	1
Benzo[a]pyrene	<0.073	*3	0.15	0.073	ug/L		11/16/21 07:09	11/17/21 19:49	1
Benzo[b]fluoranthene	<0.060	*3	0.15	0.060	ug/L		11/16/21 07:09	11/17/21 19:49	1
Benzo[g,h,i]perylene	<0.28	*3	0.74	0.28	ug/L		11/16/21 07:09	11/17/21 19:49	1
Benzo[k]fluoranthene	<0.048	*3	0.15	0.048	ug/L		11/16/21 07:09	11/17/21 19:49	1
Chrysene	<0.051		0.15	0.051	ug/L		11/16/21 07:09	11/17/21 19:49	1
Dibenz(a,h)anthracene	<0.038	*3	0.22	0.038	ug/L		11/16/21 07:09	11/17/21 19:49	1
Fluoranthene	<0.34		0.74	0.34	ug/L		11/16/21 07:09	11/17/21 19:49	1
Fluorene	<0.18		0.74	0.18	ug/L		11/16/21 07:09	11/17/21 19:49	1
Indeno[1,2,3-cd]pyrene	<0.056	*3	0.15	0.056	ug/L		11/16/21 07:09	11/17/21 19:49	1
Naphthalene	<0.23		0.74	0.23	ug/L		11/16/21 07:09	11/17/21 19:49	1
Phenanthrene	<0.22		0.74	0.22	ug/L		11/16/21 07:09	11/17/21 19:49	1
Pyrene	<0.32		0.74	0.32	ug/L		11/16/21 07:09	11/17/21 19:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	72		34 - 110	11/16/21 07:09	11/17/21 19:49	1
Nitrobenzene-d5 (Surr)	72		36 - 120	11/16/21 07:09	11/17/21 19:49	1
Terphenyl-d14 (Surr)	129		40 - 145	11/16/21 07:09	11/17/21 19:49	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.65	J	1.0	0.23	ug/L		11/30/21 15:00	12/01/21 12:19	1
Barium	150		2.5	0.73	ug/L		11/30/21 15:00	12/01/21 12:19	1
Cadmium	<0.17		0.50	0.17	ug/L		11/30/21 15:00	12/01/21 12:19	1
Chromium	2.6	J	5.0	1.1	ug/L		11/30/21 15:00	12/01/21 12:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-5

Lab Sample ID: 500-208388-1

Date Collected: 11/12/21 11:30

Matrix: Ground Water

Date Received: 11/13/21 09:50

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.3		0.50	0.19	ug/L		11/30/21 15:00	12/01/21 12:19	1
Selenium	26		2.5	0.98	ug/L		11/30/21 15:00	12/01/21 12:19	1
Silver	<0.12		0.50	0.12	ug/L		11/30/21 15:00	12/01/21 12:19	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		11/24/21 09:35	11/26/21 07:07	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-6

Lab Sample ID: 500-208388-2

Date Collected: 11/12/21 10:20

Matrix: Ground Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/22/21 16:33	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/22/21 16:33	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/22/21 16:33	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/22/21 16:33	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/22/21 16:33	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/22/21 16:33	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/22/21 16:33	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/22/21 16:33	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/22/21 16:33	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:33	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/22/21 16:33	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/22/21 16:33	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/22/21 16:33	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/22/21 16:33	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:33	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/22/21 16:33	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:33	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/22/21 16:33	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/22/21 16:33	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/22/21 16:33	1
Benzene	<0.15		0.50	0.15	ug/L			11/22/21 16:33	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:33	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/22/21 16:33	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/22/21 16:33	1
Bromoform	<0.48		1.0	0.48	ug/L			11/22/21 16:33	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/22/21 16:33	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/22/21 16:33	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
Chloroethane	<0.51	*	1.0	0.51	ug/L			11/22/21 16:33	1
Chloroform	<0.37		2.0	0.37	ug/L			11/22/21 16:33	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/22/21 16:33	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/22/21 16:33	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/22/21 16:33	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/22/21 16:33	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/22/21 16:33	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/22/21 16:33	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/22/21 16:33	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/22/21 16:33	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/22/21 16:33	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
Methylene Chloride	3.5	J	5.0	1.6	ug/L			11/22/21 16:33	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/22/21 16:33	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/22/21 16:33	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/22/21 16:33	1

Client Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-6

Lab Sample ID: 500-208388-2

Date Collected: 11/12/21 10:20

Matrix: Ground Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:33	1
Styrene	<0.39		1.0	0.39	ug/L			11/22/21 16:33	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:33	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/22/21 16:33	1
Toluene	<0.15		0.50	0.15	ug/L			11/22/21 16:33	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/22/21 16:33	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/22/21 16:33	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/22/21 16:33	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/22/21 16:33	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/22/21 16:33	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/22/21 16:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		11/22/21 16:33	1
4-Bromofluorobenzene (Surr)	87		72 - 124		11/22/21 16:33	1
Dibromofluoromethane (Surr)	117		75 - 120		11/22/21 16:33	1
Toluene-d8 (Surr)	92		75 - 120		11/22/21 16:33	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		11/16/21 07:09	11/17/21 20:10	1
2-Methylnaphthalene	0.11	J	1.6	0.051	ug/L		11/16/21 07:09	11/17/21 20:10	1
Acenaphthene	<0.24		0.79	0.24	ug/L		11/16/21 07:09	11/17/21 20:10	1
Acenaphthylene	<0.21		0.79	0.21	ug/L		11/16/21 07:09	11/17/21 20:10	1
Anthracene	<0.26		0.79	0.26	ug/L		11/16/21 07:09	11/17/21 20:10	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		11/16/21 07:09	11/17/21 20:10	1
Benzo[a]pyrene	<0.078	*3	0.16	0.078	ug/L		11/16/21 07:09	11/17/21 20:10	1
Benzo[b]fluoranthene	<0.064	*3	0.16	0.064	ug/L		11/16/21 07:09	11/17/21 20:10	1
Benzo[g,h,i]perylene	<0.30	*3	0.79	0.30	ug/L		11/16/21 07:09	11/17/21 20:10	1
Benzo[k]fluoranthene	<0.051	*3	0.16	0.051	ug/L		11/16/21 07:09	11/17/21 20:10	1
Chrysene	<0.054		0.16	0.054	ug/L		11/16/21 07:09	11/17/21 20:10	1
Dibenz(a,h)anthracene	<0.040	*3	0.24	0.040	ug/L		11/16/21 07:09	11/17/21 20:10	1
Fluoranthene	<0.36		0.79	0.36	ug/L		11/16/21 07:09	11/17/21 20:10	1
Fluorene	<0.19		0.79	0.19	ug/L		11/16/21 07:09	11/17/21 20:10	1
Indeno[1,2,3-cd]pyrene	<0.059	*3	0.16	0.059	ug/L		11/16/21 07:09	11/17/21 20:10	1
Naphthalene	<0.24		0.79	0.24	ug/L		11/16/21 07:09	11/17/21 20:10	1
Phenanthrene	<0.24		0.79	0.24	ug/L		11/16/21 07:09	11/17/21 20:10	1
Pyrene	<0.34		0.79	0.34	ug/L		11/16/21 07:09	11/17/21 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	78		34 - 110	11/16/21 07:09	11/17/21 20:10	1
Nitrobenzene-d5 (Surr)	80		36 - 120	11/16/21 07:09	11/17/21 20:10	1
Terphenyl-d14 (Surr)	123		40 - 145	11/16/21 07:09	11/17/21 20:10	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.6		1.0	0.23	ug/L		11/30/21 15:00	12/01/21 12:23	1
Barium	49		2.5	0.73	ug/L		11/30/21 15:00	12/01/21 12:23	1
Cadmium	<0.17		0.50	0.17	ug/L		11/30/21 15:00	12/01/21 12:23	1
Chromium	<1.1		5.0	1.1	ug/L		11/30/21 15:00	12/01/21 12:23	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-6

Lab Sample ID: 500-208388-2

Date Collected: 11/12/21 10:20

Matrix: Ground Water

Date Received: 11/13/21 09:50

Method: 6020A - Metals (ICP/MS) - Dissolved (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.21	J	0.50	0.19	ug/L		11/30/21 15:00	12/01/21 12:23	1
Selenium	<0.98		2.5	0.98	ug/L		11/30/21 15:00	12/01/21 12:23	1
Silver	<0.12		0.50	0.12	ug/L		11/30/21 15:00	12/01/21 12:23	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		11/24/21 09:35	11/26/21 07:09	1



Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: Dup-1

Lab Sample ID: 500-208388-3

Date Collected: 11/12/21 00:00

Matrix: Ground Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/22/21 16:57	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/22/21 16:57	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/22/21 16:57	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/22/21 16:57	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/22/21 16:57	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/22/21 16:57	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/22/21 16:57	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/22/21 16:57	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/22/21 16:57	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:57	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/22/21 16:57	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/22/21 16:57	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/22/21 16:57	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/22/21 16:57	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:57	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/22/21 16:57	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:57	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/22/21 16:57	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/22/21 16:57	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/22/21 16:57	1
Benzene	<0.15		0.50	0.15	ug/L			11/22/21 16:57	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/22/21 16:57	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/22/21 16:57	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/22/21 16:57	1
Bromoform	<0.48		1.0	0.48	ug/L			11/22/21 16:57	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/22/21 16:57	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/22/21 16:57	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
Chloroethane	<0.51	*	1.0	0.51	ug/L			11/22/21 16:57	1
Chloroform	<0.37		2.0	0.37	ug/L			11/22/21 16:57	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/22/21 16:57	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/22/21 16:57	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/22/21 16:57	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/22/21 16:57	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/22/21 16:57	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/22/21 16:57	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/22/21 16:57	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/22/21 16:57	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/22/21 16:57	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
Methylene Chloride	3.5	J	5.0	1.6	ug/L			11/22/21 16:57	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/22/21 16:57	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/22/21 16:57	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/22/21 16:57	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: Dup-1

Lab Sample ID: 500-208388-3

Date Collected: 11/12/21 00:00

Matrix: Ground Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:57	1
Styrene	<0.39		1.0	0.39	ug/L			11/22/21 16:57	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 16:57	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/22/21 16:57	1
Toluene	<0.15		0.50	0.15	ug/L			11/22/21 16:57	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/22/21 16:57	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/22/21 16:57	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/22/21 16:57	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/22/21 16:57	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/22/21 16:57	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/22/21 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		75 - 126		11/22/21 16:57	1
4-Bromofluorobenzene (Surr)	90		72 - 124		11/22/21 16:57	1
Dibromofluoromethane (Surr)	115		75 - 120		11/22/21 16:57	1
Toluene-d8 (Surr)	94		75 - 120		11/22/21 16:57	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-208388-4

Date Collected: 11/12/21 00:00

Matrix: Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/22/21 17:22	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/22/21 17:22	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/22/21 17:22	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/22/21 17:22	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/22/21 17:22	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/22/21 17:22	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/22/21 17:22	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/22/21 17:22	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/22/21 17:22	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/22/21 17:22	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/22/21 17:22	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/22/21 17:22	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/22/21 17:22	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/22/21 17:22	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/22/21 17:22	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/22/21 17:22	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/22/21 17:22	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/22/21 17:22	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/22/21 17:22	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/22/21 17:22	1
Benzene	<0.15		0.50	0.15	ug/L			11/22/21 17:22	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/22/21 17:22	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/22/21 17:22	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/22/21 17:22	1
Bromoform	<0.48		1.0	0.48	ug/L			11/22/21 17:22	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/22/21 17:22	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/22/21 17:22	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
Chloroethane	<0.51	*	1.0	0.51	ug/L			11/22/21 17:22	1
Chloroform	<0.37		2.0	0.37	ug/L			11/22/21 17:22	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/22/21 17:22	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/22/21 17:22	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/22/21 17:22	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/22/21 17:22	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/22/21 17:22	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/22/21 17:22	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/22/21 17:22	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/22/21 17:22	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/22/21 17:22	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
Methylene Chloride	3.5	J	5.0	1.6	ug/L			11/22/21 17:22	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/22/21 17:22	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/22/21 17:22	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/22/21 17:22	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-208388-4

Date Collected: 11/12/21 00:00

Matrix: Water

Date Received: 11/13/21 09:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 17:22	1
Styrene	<0.39		1.0	0.39	ug/L			11/22/21 17:22	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 17:22	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/22/21 17:22	1
Toluene	<0.15		0.50	0.15	ug/L			11/22/21 17:22	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/22/21 17:22	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/22/21 17:22	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/22/21 17:22	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/22/21 17:22	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/22/21 17:22	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/22/21 17:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		75 - 126		11/22/21 17:22	1
4-Bromofluorobenzene (Surr)	94		72 - 124		11/22/21 17:22	1
Dibromofluoromethane (Surr)	113		75 - 120		11/22/21 17:22	1
Toluene-d8 (Surr)	94		75 - 120		11/22/21 17:22	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier	Qualifier Description
*3	ISTD response or retention time outside acceptable limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

GC/MS VOA

Analysis Batch: 630229

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Total/NA	Ground Water	8260B	
500-208388-2	MW-6	Total/NA	Ground Water	8260B	
500-208388-3	Dup-1	Total/NA	Ground Water	8260B	
500-208388-4	Trip Blank	Total/NA	Water	8260B	
MB 500-630229/7	Method Blank	Total/NA	Water	8260B	
LCS 500-630229/5	Lab Control Sample	Total/NA	Water	8260B	
500-208388-1 MS	MW-5	Total/NA	Ground Water	8260B	
500-208388-1 MSD	MW-5	Total/NA	Ground Water	8260B	

GC/MS Semi VOA

Prep Batch: 629010

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Total/NA	Ground Water	3510C	
500-208388-2	MW-6	Total/NA	Ground Water	3510C	
MB 500-629010/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-629010/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 629324

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Total/NA	Ground Water	8270D	629010
500-208388-2	MW-6	Total/NA	Ground Water	8270D	629010

Analysis Batch: 629333

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-629010/1-A	Method Blank	Total/NA	Water	8270D	629010
LCS 500-629010/2-A	Lab Control Sample	Total/NA	Water	8270D	629010

Metals

Filtration Batch: 630743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Dissolved	Ground Water	FILTRATION	
500-208388-2	MW-6	Dissolved	Ground Water	FILTRATION	
MB 500-630743/1-B	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 630800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Dissolved	Ground Water	7470A	630743
500-208388-2	MW-6	Dissolved	Ground Water	7470A	630743
MB 500-630743/1-B	Method Blank	Dissolved	Water	7470A	630743
MB 500-630800/13-A	Method Blank	Total/NA	Water	7470A	
LCS 500-630800/12-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 630975

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Dissolved	Ground Water	7470A	630800
500-208388-2	MW-6	Dissolved	Ground Water	7470A	630800
MB 500-630743/1-B	Method Blank	Dissolved	Water	7470A	630800
MB 500-630800/13-A	Method Blank	Total/NA	Water	7470A	630800
LCS 500-630800/12-A	Lab Control Sample	Total/NA	Water	7470A	630800

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QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Metals

Prep Batch: 631402

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Dissolved	Ground Water	3005A	630743
500-208388-2	MW-6	Dissolved	Ground Water	3005A	630743
MB 500-631402/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-631402/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 631672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-208388-1	MW-5	Dissolved	Ground Water	6020A	631402
500-208388-2	MW-6	Dissolved	Ground Water	6020A	631402
MB 500-631402/1-A	Method Blank	Total Recoverable	Water	6020A	631402
LCS 500-631402/2-A	Lab Control Sample	Total Recoverable	Water	6020A	631402

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-208388-1	MW-5	110	89	115	94
500-208388-1 MS	MW-5	100	93	102	100
500-208388-1 MSD	MW-5	99	96	104	102
500-208388-2	MW-6	110	87	117	92
500-208388-3	Dup-1	110	90	115	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-208388-4	Trip Blank	108	94	113	94
LCS 500-630229/5	Lab Control Sample	98	96	100	101
MB 500-630229/7	Method Blank	107	93	107	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (34-110)	NBZ (36-120)	TPHL (40-145)
500-208388-1	MW-5	72	72	129
500-208388-2	MW-6	78	80	123

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		FBP (34-110)	NBZ (36-120)	TPHL (40-145)
LCS 500-629010/2-A	Lab Control Sample	88	80	115
MB 500-629010/1-A	Method Blank	91	76	116

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)

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Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449
NBZ = Nitrobenzene-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Job ID: 500-208388-1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Lab Sample ID: MB 500-630229/7
Matrix: Water
Analysis Batch: 630229

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			11/22/21 11:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			11/22/21 11:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			11/22/21 11:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			11/22/21 11:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			11/22/21 11:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			11/22/21 11:19	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			11/22/21 11:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			11/22/21 11:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			11/22/21 11:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			11/22/21 11:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			11/22/21 11:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			11/22/21 11:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			11/22/21 11:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			11/22/21 11:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			11/22/21 11:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			11/22/21 11:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			11/22/21 11:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			11/22/21 11:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			11/22/21 11:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			11/22/21 11:19	1
Benzene	<0.15		0.50	0.15	ug/L			11/22/21 11:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			11/22/21 11:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			11/22/21 11:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			11/22/21 11:19	1
Bromoform	<0.48		1.0	0.48	ug/L			11/22/21 11:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			11/22/21 11:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			11/22/21 11:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			11/22/21 11:19	1
Chloroform	<0.37		2.0	0.37	ug/L			11/22/21 11:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			11/22/21 11:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			11/22/21 11:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			11/22/21 11:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			11/22/21 11:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			11/22/21 11:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			11/22/21 11:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			11/22/21 11:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			11/22/21 11:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			11/22/21 11:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			11/22/21 11:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			11/22/21 11:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			11/22/21 11:19	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Lab Sample ID: MB 500-630229/7
Matrix: Water
Analysis Batch: 630229

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			11/22/21 11:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 11:19	1
Styrene	<0.39		1.0	0.39	ug/L			11/22/21 11:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			11/22/21 11:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			11/22/21 11:19	1
Toluene	<0.15		0.50	0.15	ug/L			11/22/21 11:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			11/22/21 11:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			11/22/21 11:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			11/22/21 11:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			11/22/21 11:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			11/22/21 11:19	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			11/22/21 11:19	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	107		75 - 126		11/22/21 11:19	1
4-Bromofluorobenzene (Surr)	93		72 - 124		11/22/21 11:19	1
Dibromofluoromethane (Surr)	107		75 - 120		11/22/21 11:19	1
Toluene-d8 (Surr)	93		75 - 120		11/22/21 11:19	1

Lab Sample ID: LCS 500-630229/5
Matrix: Water
Analysis Batch: 630229

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	56.6		ug/L		113	70 - 125
1,1,1,2-Tetrachloroethane	50.0	52.5		ug/L		105	62 - 140
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	71 - 130
1,1-Dichloroethane	50.0	50.8		ug/L		102	70 - 125
1,1-Dichloroethene	50.0	53.6		ug/L		107	67 - 122
1,1-Dichloropropene	50.0	51.1		ug/L		102	70 - 121
1,2,3-Trichlorobenzene	50.0	62.3		ug/L		125	51 - 145
1,2,3-Trichloropropane	50.0	53.8		ug/L		108	50 - 133
1,2,4-Trichlorobenzene	50.0	58.7		ug/L		117	57 - 137
1,2,4-Trimethylbenzene	50.0	58.0		ug/L		116	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	57.5		ug/L		115	56 - 123
1,2-Dibromoethane	50.0	47.8		ug/L		96	70 - 125
1,2-Dichlorobenzene	50.0	54.5		ug/L		109	70 - 125
1,2-Dichloroethane	50.0	47.7		ug/L		95	68 - 127
1,2-Dichloropropane	50.0	46.0		ug/L		92	67 - 130
1,3,5-Trimethylbenzene	50.0	59.2		ug/L		118	70 - 123
1,3-Dichlorobenzene	50.0	52.7		ug/L		105	70 - 125
1,3-Dichloropropane	50.0	48.0		ug/L		96	62 - 136
1,4-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 120
2,2-Dichloropropane	50.0	51.3		ug/L		103	58 - 139
2-Chlorotoluene	50.0	56.5		ug/L		113	70 - 125
4-Chlorotoluene	50.0	53.8		ug/L		108	68 - 124
Benzene	50.0	49.8		ug/L		100	70 - 120

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Lab Sample ID: LCS 500-630229/5
Matrix: Water
Analysis Batch: 630229

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	51.7		ug/L		103	70 - 122
Bromochloromethane	50.0	51.5		ug/L		103	65 - 122
Bromodichloromethane	50.0	46.4		ug/L		93	69 - 120
Bromoform	50.0	49.6		ug/L		99	56 - 132
Bromomethane	50.0	35.7		ug/L		71	40 - 152
Carbon tetrachloride	50.0	53.8		ug/L		108	59 - 133
Chlorobenzene	50.0	49.3		ug/L		99	70 - 120
Chloroethane	50.0	18.9	*	ug/L		38	48 - 136
Chloroform	50.0	48.6		ug/L		97	70 - 120
Chloromethane	50.0	51.6		ug/L		103	56 - 152
cis-1,2-Dichloroethene	50.0	50.9		ug/L		102	70 - 125
cis-1,3-Dichloropropene	50.0	47.8		ug/L		96	64 - 127
Dibromochloromethane	50.0	51.0		ug/L		102	68 - 125
Dibromomethane	50.0	45.7		ug/L		91	70 - 120
Dichlorodifluoromethane	50.0	47.7		ug/L		95	40 - 159
Ethylbenzene	50.0	53.7		ug/L		107	70 - 123
Hexachlorobutadiene	50.0	73.3		ug/L		147	51 - 150
Isopropylbenzene	50.0	57.8		ug/L		116	70 - 126
Methyl tert-butyl ether	50.0	53.6		ug/L		107	55 - 123
Methylene Chloride	50.0	49.5		ug/L		99	69 - 125
Naphthalene	50.0	59.2		ug/L		118	53 - 144
n-Butylbenzene	50.0	57.2		ug/L		114	68 - 125
N-Propylbenzene	50.0	57.1		ug/L		114	69 - 127
p-Isopropyltoluene	50.0	60.2		ug/L		120	70 - 125
sec-Butylbenzene	50.0	60.6		ug/L		121	70 - 123
Styrene	50.0	52.2		ug/L		104	70 - 120
tert-Butylbenzene	50.0	59.8		ug/L		120	70 - 121
Tetrachloroethene	50.0	56.2		ug/L		112	70 - 128
Toluene	50.0	54.1		ug/L		108	70 - 125
trans-1,2-Dichloroethene	50.0	53.2		ug/L		106	70 - 125
trans-1,3-Dichloropropene	50.0	46.1		ug/L		92	62 - 128
Trichloroethene	50.0	50.7		ug/L		101	70 - 125
Trichlorofluoromethane	50.0	52.1		ug/L		104	55 - 128
Vinyl chloride	50.0	53.3		ug/L		107	64 - 126
Xylenes, Total	100	110		ug/L		110	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		75 - 126
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	100		75 - 120
Toluene-d8 (Surr)	101		75 - 120

Lab Sample ID: 500-208388-1 MS
Matrix: Ground Water
Analysis Batch: 630229

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1,2-Tetrachloroethane	<0.46	F1	50.0	65.1	F1	ug/L		130	70 - 125

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Lab Sample ID: 500-208388-1 MS

Client Sample ID: MW-5

Matrix: Ground Water

Prep Type: Total/NA

Analysis Batch: 630229

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	<0.38		50.0	58.7		ug/L		117	70 - 125
1,1,2,2-Tetrachloroethane	<0.40		50.0	56.7		ug/L		113	62 - 140
1,1,2-Trichloroethane	<0.35		50.0	56.0		ug/L		112	71 - 130
1,1-Dichloroethane	<0.41		50.0	55.6		ug/L		111	70 - 125
1,1-Dichloroethene	<0.39		50.0	56.4		ug/L		113	67 - 122
1,1-Dichloropropene	<0.30		50.0	52.4		ug/L		105	70 - 121
1,2,3-Trichlorobenzene	<0.46		50.0	62.4		ug/L		125	51 - 145
1,2,3-Trichloropropane	<0.41		50.0	58.0		ug/L		116	50 - 133
1,2,4-Trichlorobenzene	<0.34		50.0	56.5		ug/L		113	57 - 137
1,2,4-Trimethylbenzene	<0.36		50.0	61.2		ug/L		122	70 - 123
1,2-Dibromo-3-Chloropropane	<2.0		50.0	60.3		ug/L		121	56 - 123
1,2-Dibromoethane	<0.39		50.0	54.7		ug/L		109	70 - 125
1,2-Dichlorobenzene	<0.33		50.0	58.8		ug/L		118	70 - 125
1,2-Dichloroethane	<0.39		50.0	52.1		ug/L		104	68 - 127
1,2-Dichloropropane	<0.43		50.0	53.0		ug/L		106	67 - 130
1,3,5-Trimethylbenzene	<0.25		50.0	61.1		ug/L		122	70 - 123
1,3-Dichlorobenzene	<0.40		50.0	56.1		ug/L		112	70 - 125
1,3-Dichloropropane	<0.36		50.0	53.6		ug/L		107	62 - 136
1,4-Dichlorobenzene	<0.36		50.0	53.2		ug/L		106	70 - 120
2,2-Dichloropropane	<0.44		50.0	52.2		ug/L		104	58 - 139
2-Chlorotoluene	<0.31		50.0	58.9		ug/L		118	70 - 125
4-Chlorotoluene	<0.35		50.0	56.8		ug/L		114	68 - 124
Benzene	<0.15		50.0	54.2		ug/L		108	70 - 120
Bromobenzene	<0.36		50.0	56.7		ug/L		113	70 - 122
Bromochloromethane	<0.43		50.0	57.9		ug/L		116	65 - 122
Bromodichloromethane	<0.37		50.0	52.2		ug/L		104	69 - 120
Bromoform	<0.48		50.0	56.6		ug/L		113	56 - 132
Bromomethane	<0.80		50.0	38.0		ug/L		76	40 - 152
Carbon tetrachloride	<0.38		50.0	56.8		ug/L		114	59 - 133
Chlorobenzene	<0.39		50.0	54.7		ug/L		109	70 - 120
Chloroethane	<0.51	F1 *-	50.0	19.3	F1	ug/L		39	48 - 136
Chloroform	<0.37		50.0	54.2		ug/L		108	70 - 120
Chloromethane	<0.32		50.0	51.9		ug/L		104	56 - 152
cis-1,2-Dichloroethene	<0.41		50.0	55.3		ug/L		111	70 - 125
cis-1,3-Dichloropropene	<0.42		50.0	50.6		ug/L		101	64 - 127
Dibromochloromethane	<0.49		50.0	59.0		ug/L		118	68 - 125
Dibromomethane	<0.27		50.0	50.3		ug/L		101	70 - 120
Dichlorodifluoromethane	<0.67		50.0	46.8		ug/L		94	40 - 159
Ethylbenzene	<0.18		50.0	57.7		ug/L		115	70 - 123
Hexachlorobutadiene	<0.45		50.0	71.2		ug/L		142	51 - 150
Isopropylbenzene	<0.39		50.0	58.9		ug/L		118	70 - 126
Methyl tert-butyl ether	<0.39		50.0	57.2		ug/L		114	55 - 123
Methylene Chloride	3.3	J	50.0	61.1		ug/L		115	69 - 125
Naphthalene	<0.34		50.0	57.9		ug/L		116	53 - 144
n-Butylbenzene	<0.39		50.0	56.5		ug/L		113	68 - 125
N-Propylbenzene	<0.41		50.0	58.6		ug/L		117	69 - 127
p-Isopropyltoluene	<0.36		50.0	60.7		ug/L		121	70 - 125
sec-Butylbenzene	<0.40		50.0	61.0		ug/L		122	70 - 123
Styrene	<0.39		50.0	58.7		ug/L		117	70 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Lab Sample ID: 500-208388-1 MS
Matrix: Ground Water
Analysis Batch: 630229

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
tert-Butylbenzene	<0.40	F1	50.0	61.4	F1	ug/L		123	70 - 121
Tetrachloroethene	<0.37		50.0	59.8		ug/L		120	70 - 128
Toluene	<0.15		50.0	58.5		ug/L		117	70 - 125
trans-1,2-Dichloroethene	<0.35		50.0	57.7		ug/L		115	70 - 125
trans-1,3-Dichloropropene	<0.36		50.0	50.5		ug/L		101	62 - 128
Trichloroethene	<0.16		50.0	52.8		ug/L		106	70 - 125
Trichlorofluoromethane	<0.43		50.0	52.3		ug/L		105	55 - 128
Vinyl chloride	<0.20		50.0	52.7		ug/L		105	64 - 126
Xylenes, Total	<0.22		100	118		ug/L		118	70 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		75 - 126
4-Bromofluorobenzene (Surr)	93		72 - 124
Dibromofluoromethane (Surr)	102		75 - 120
Toluene-d8 (Surr)	100		75 - 120

Lab Sample ID: 500-208388-1 MSD
Matrix: Ground Water
Analysis Batch: 630229

Client Sample ID: MW-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1,2-Tetrachloroethane	<0.46	F1	50.0	64.0	F1	ug/L		128	70 - 125	2	20
1,1,1-Trichloroethane	<0.38		50.0	58.2		ug/L		116	70 - 125	1	20
1,1,1,2-Tetrachloroethane	<0.40		50.0	56.3		ug/L		113	62 - 140	1	20
1,1,2-Trichloroethane	<0.35		50.0	55.0		ug/L		110	71 - 130	2	20
1,1-Dichloroethane	<0.41		50.0	54.0		ug/L		108	70 - 125	3	20
1,1-Dichloroethene	<0.39		50.0	54.9		ug/L		110	67 - 122	3	20
1,1-Dichloropropene	<0.30		50.0	51.3		ug/L		103	70 - 121	2	20
1,2,3-Trichlorobenzene	<0.46		50.0	62.6		ug/L		125	51 - 145	0	20
1,2,3-Trichloropropane	<0.41		50.0	56.7		ug/L		113	50 - 133	2	20
1,2,4-Trichlorobenzene	<0.34		50.0	56.5		ug/L		113	57 - 137	0	20
1,2,4-Trimethylbenzene	<0.36		50.0	60.0		ug/L		120	70 - 123	2	20
1,2-Dibromo-3-Chloropropane	<2.0		50.0	60.2		ug/L		120	56 - 123	0	20
1,2-Dibromoethane	<0.39		50.0	51.9		ug/L		104	70 - 125	5	20
1,2-Dichlorobenzene	<0.33		50.0	58.1		ug/L		116	70 - 125	1	20
1,2-Dichloroethane	<0.39		50.0	50.2		ug/L		100	68 - 127	4	20
1,2-Dichloropropane	<0.43		50.0	50.9		ug/L		102	67 - 130	4	20
1,3,5-Trimethylbenzene	<0.25		50.0	60.2		ug/L		120	70 - 123	1	20
1,3-Dichlorobenzene	<0.40		50.0	54.7		ug/L		109	70 - 125	2	20
1,3-Dichloropropane	<0.36		50.0	51.6		ug/L		103	62 - 136	4	20
1,4-Dichlorobenzene	<0.36		50.0	52.2		ug/L		104	70 - 120	2	20
2,2-Dichloropropane	<0.44		50.0	49.7		ug/L		99	58 - 139	5	20
2-Chlorotoluene	<0.31		50.0	57.0		ug/L		114	70 - 125	3	20
4-Chlorotoluene	<0.35		50.0	55.0		ug/L		110	68 - 124	3	20
Benzene	<0.15		50.0	52.2		ug/L		104	70 - 120	4	20
Bromobenzene	<0.36		50.0	57.0		ug/L		114	70 - 122	1	20
Bromochloromethane	<0.43		50.0	56.5		ug/L		113	65 - 122	3	20
Bromodichloromethane	<0.37		50.0	50.1		ug/L		100	69 - 120	4	20

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

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

Lab Sample ID: 500-208388-1 MSD
 Matrix: Ground Water
 Analysis Batch: 630229

Client Sample ID: MW-5
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	<0.48		50.0	51.7		ug/L		103	56 - 132	9	20
Bromomethane	<0.80		50.0	38.9		ug/L		78	40 - 152	2	20
Carbon tetrachloride	<0.38		50.0	56.1		ug/L		112	59 - 133	1	20
Chlorobenzene	<0.39		50.0	51.7		ug/L		103	70 - 120	6	20
Chloroethane	<0.51	F1 *	50.0	20.0	F1	ug/L		40	48 - 136	4	20
Chloroform	<0.37		50.0	53.2		ug/L		106	70 - 120	2	20
Chloromethane	<0.32		50.0	53.5		ug/L		107	56 - 152	3	20
cis-1,2-Dichloroethene	<0.41		50.0	55.9		ug/L		112	70 - 125	1	20
cis-1,3-Dichloropropene	<0.42		50.0	50.0		ug/L		100	64 - 127	1	20
Dibromochloromethane	<0.49		50.0	56.6		ug/L		113	68 - 125	4	20
Dibromomethane	<0.27		50.0	48.6		ug/L		97	70 - 120	3	20
Dichlorodifluoromethane	<0.67		50.0	45.4		ug/L		91	40 - 159	3	20
Ethylbenzene	<0.18		50.0	54.3		ug/L		109	70 - 123	6	20
Hexachlorobutadiene	<0.45		50.0	65.3		ug/L		131	51 - 150	9	20
Isopropylbenzene	<0.39		50.0	58.6		ug/L		117	70 - 126	1	20
Methyl tert-butyl ether	<0.39		50.0	56.9		ug/L		114	55 - 123	1	20
Methylene Chloride	3.3	J	50.0	60.3		ug/L		114	69 - 125	1	20
Naphthalene	<0.34		50.0	57.8		ug/L		116	53 - 144	0	20
n-Butylbenzene	<0.39		50.0	51.8		ug/L		104	68 - 125	9	20
N-Propylbenzene	<0.41		50.0	56.0		ug/L		112	69 - 127	4	20
p-Isopropyltoluene	<0.36		50.0	58.3		ug/L		117	70 - 125	4	20
sec-Butylbenzene	<0.40		50.0	59.3		ug/L		119	70 - 123	3	20
Styrene	<0.39		50.0	53.9		ug/L		108	70 - 120	8	20
tert-Butylbenzene	<0.40	F1	50.0	60.2		ug/L		120	70 - 121	2	20
Tetrachloroethene	<0.37		50.0	58.2		ug/L		116	70 - 128	3	20
Toluene	<0.15		50.0	58.2		ug/L		116	70 - 125	1	20
trans-1,2-Dichloroethene	<0.35		50.0	55.5		ug/L		111	70 - 125	4	20
trans-1,3-Dichloropropene	<0.36		50.0	49.9		ug/L		100	62 - 128	1	20
Trichloroethene	<0.16		50.0	51.3		ug/L		103	70 - 125	3	20
Trichlorofluoromethane	<0.43		50.0	53.9		ug/L		108	55 - 128	3	20
Vinyl chloride	<0.20		50.0	53.3		ug/L		107	64 - 126	1	20
Xylenes, Total	<0.22		100	109		ug/L		109	70 - 125	8	20

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
1,2-Dichloroethane-d4 (Surr)	99		75 - 126
4-Bromofluorobenzene (Surr)	96		72 - 124
Dibromofluoromethane (Surr)	104		75 - 120
Toluene-d8 (Surr)	102		75 - 120

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-629010/1-A
 Matrix: Water
 Analysis Batch: 629333

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 629010

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L		11/16/21 07:09	11/17/21 11:45	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L		11/16/21 07:09	11/17/21 11:45	1
Acenaphthene	<0.25		0.80	0.25	ug/L		11/16/21 07:09	11/17/21 11:45	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-629010/1-A
Matrix: Water
Analysis Batch: 629333

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 629010

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthylene	<0.21		0.80	0.21	ug/L		11/16/21 07:09	11/17/21 11:45	1
Anthracene	<0.27		0.80	0.27	ug/L		11/16/21 07:09	11/17/21 11:45	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L		11/16/21 07:09	11/17/21 11:45	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L		11/16/21 07:09	11/17/21 11:45	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L		11/16/21 07:09	11/17/21 11:45	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L		11/16/21 07:09	11/17/21 11:45	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L		11/16/21 07:09	11/17/21 11:45	1
Chrysene	<0.055		0.16	0.055	ug/L		11/16/21 07:09	11/17/21 11:45	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L		11/16/21 07:09	11/17/21 11:45	1
Fluoranthene	<0.36		0.80	0.36	ug/L		11/16/21 07:09	11/17/21 11:45	1
Fluorene	<0.20		0.80	0.20	ug/L		11/16/21 07:09	11/17/21 11:45	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		11/16/21 07:09	11/17/21 11:45	1
Naphthalene	<0.25		0.80	0.25	ug/L		11/16/21 07:09	11/17/21 11:45	1
Phenanthrene	<0.24		0.80	0.24	ug/L		11/16/21 07:09	11/17/21 11:45	1
Pyrene	<0.34		0.80	0.34	ug/L		11/16/21 07:09	11/17/21 11:45	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	91		34 - 110	11/16/21 07:09	11/17/21 11:45	1
Nitrobenzene-d5 (Surr)	76		36 - 120	11/16/21 07:09	11/17/21 11:45	1
Terphenyl-d14 (Surr)	116		40 - 145	11/16/21 07:09	11/17/21 11:45	1

Lab Sample ID: LCS 500-629010/2-A
Matrix: Water
Analysis Batch: 629333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629010

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Methylnaphthalene	32.0	22.9		ug/L		72	34 - 110
Acenaphthene	32.0	25.7		ug/L		80	46 - 110
Acenaphthylene	32.0	25.9		ug/L		81	47 - 113
Anthracene	32.0	29.1		ug/L		91	67 - 118
Benzo[a]anthracene	32.0	31.1		ug/L		97	70 - 126
Benzo[a]pyrene	32.0	36.2		ug/L		113	70 - 135
Benzo[b]fluoranthene	32.0	29.4		ug/L		92	69 - 136
Benzo[g,h,i]perylene	32.0	31.0		ug/L		97	70 - 135
Benzo[k]fluoranthene	32.0	31.5		ug/L		98	70 - 133
Chrysene	32.0	32.7		ug/L		102	68 - 129
Dibenz(a,h)anthracene	32.0	29.4		ug/L		92	70 - 134
Fluoranthene	32.0	30.8		ug/L		96	68 - 126
Fluorene	32.0	26.1		ug/L		81	53 - 120
Indeno[1,2,3-cd]pyrene	32.0	29.5		ug/L		92	65 - 133
Naphthalene	32.0	21.1		ug/L		66	36 - 110
Phenanthrene	32.0	28.8		ug/L		90	65 - 120
Pyrene	32.0	31.5		ug/L		98	70 - 126

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	88		34 - 110
Nitrobenzene-d5 (Surr)	80		36 - 120

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-629010/2-A
Matrix: Water
Analysis Batch: 629333

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 629010

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	115		40 - 145

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-631402/1-A
Matrix: Water
Analysis Batch: 631672

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 631402

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.23		1.0	0.23	ug/L		11/30/21 15:00	12/01/21 11:38	1
Barium	<0.73		2.5	0.73	ug/L		11/30/21 15:00	12/01/21 11:38	1
Cadmium	<0.17		0.50	0.17	ug/L		11/30/21 15:00	12/01/21 11:38	1
Chromium	<1.1		5.0	1.1	ug/L		11/30/21 15:00	12/01/21 11:38	1
Lead	<0.19		0.50	0.19	ug/L		11/30/21 15:00	12/01/21 11:38	1
Selenium	<0.98		2.5	0.98	ug/L		11/30/21 15:00	12/01/21 11:38	1
Silver	<0.12		0.50	0.12	ug/L		11/30/21 15:00	12/01/21 11:38	1

Lab Sample ID: LCS 500-631402/2-A
Matrix: Water
Analysis Batch: 631672

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 631402

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Arsenic	100	101		ug/L		101	80 - 120
Barium	500	505		ug/L		101	80 - 120
Cadmium	50.0	49.8		ug/L		100	80 - 120
Chromium	200	204		ug/L		102	80 - 120
Lead	100	105		ug/L		105	80 - 120
Selenium	100	102		ug/L		102	80 - 120
Silver	50.0	55.0		ug/L		110	80 - 120

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-630800/13-A
Matrix: Water
Analysis Batch: 630975

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 630800

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	<0.098		0.20	0.098	ug/L		11/24/21 09:35	11/26/21 07:03	1

Lab Sample ID: LCS 500-630800/12-A
Matrix: Water
Analysis Batch: 630975

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 630800

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
Mercury	2.00	1.97		ug/L		98	80 - 120

QC Sample Results

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: MB 500-630743/1-B
Matrix: Water
Analysis Batch: 630975

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 630800

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		11/24/21 09:35	11/26/21 07:05	1

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Client Sample ID: MW-5

Date Collected: 11/12/21 11:30

Date Received: 11/13/21 09:50

Lab Sample ID: 500-208388-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	630229	11/22/21 16:09	STW	TAL CHI
Total/NA	Prep	3510C			629010	11/16/21 07:09	FRG	TAL CHI
Total/NA	Analysis	8270D		1	629324	11/17/21 19:49	EMA	TAL CHI
Dissolved	Filtration	FILTRATION			630743	11/24/21 08:04	LK	TAL CHI
Dissolved	Prep	3005A			631402	11/30/21 15:00	DAJ	TAL CHI
Dissolved	Analysis	6020A		1	631672	12/01/21 12:19	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			630743	11/24/21 08:04	LK	TAL CHI
Dissolved	Prep	7470A			630800	11/24/21 09:35	MJG	TAL CHI
Dissolved	Analysis	7470A		1	630975	11/26/21 07:07	MJG	TAL CHI

Client Sample ID: MW-6

Date Collected: 11/12/21 10:20

Date Received: 11/13/21 09:50

Lab Sample ID: 500-208388-2

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	630229	11/22/21 16:33	STW	TAL CHI
Total/NA	Prep	3510C			629010	11/16/21 07:09	FRG	TAL CHI
Total/NA	Analysis	8270D		1	629324	11/17/21 20:10	EMA	TAL CHI
Dissolved	Filtration	FILTRATION			630743	11/24/21 08:04	LK	TAL CHI
Dissolved	Prep	3005A			631402	11/30/21 15:00	DAJ	TAL CHI
Dissolved	Analysis	6020A		1	631672	12/01/21 12:23	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			630743	11/24/21 08:04	LK	TAL CHI
Dissolved	Prep	7470A			630800	11/24/21 09:35	MJG	TAL CHI
Dissolved	Analysis	7470A		1	630975	11/26/21 07:09	MJG	TAL CHI

Client Sample ID: Dup-1

Date Collected: 11/12/21 00:00

Date Received: 11/13/21 09:50

Lab Sample ID: 500-208388-3

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	630229	11/22/21 16:57	STW	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 11/12/21 00:00

Date Received: 11/13/21 09:50

Lab Sample ID: 500-208388-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	630229	11/22/21 17:22	STW	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: CWC - East Block - 40449

Job ID: 500-208388-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

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500-208388 COC

500-208308

Sample Collector(s) Aileen Zebrowski	Title Staff Engineer	Telephone # (incl area c) (262) 821-1171	Report To Robert Reineke and Daniel Pelczar
Property Owner CWC - East Block	Property Address 2748 N 32nd Street Milwaukee WI	Telephone # (incl area code)	KSingh Project # 40449

I hereby certify that I received properly and disposed of the samples as noted below

Relinquished By (Signature) <i>Aileen Zebrowski</i>	Date/Time 11/12/21, 15:30	Received By (Signature) <i>[Signature]</i>	Temperature Blank <u>0.6 + -0.4</u>
Relinquished By (Signature) <i>[Signature]</i>	Date/Time 11-12-21 1700	Received By (Signature) <u>11/13/21 0950</u> <i>Stephanie Hernandez ETA-CHI</i>	If samples were received on ice and there was ice remaining you may report the temperature as received on ice. If all of the ice was melted the temperature of the melt may be substituted for the temperature blank.

1 Specify groundwater (GW), soil (S) air (A) sludge (SL), surface water (SW) etc
2 Sample description must clearly correlate the sample ID to the sampling location

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Date Collected	Time Collected	Samples		Location/Description (2)	VOCs	PAHs	RCRA Metals	Sample Condition					
		Type (1)	Device					# / Type of Container				Other Comment	
								MeOH	HCL	H2SO4	Unpres		
11/12/2021		GW	Bailer	MW 2	X	X						2	
11/12/2021	1130	GW	Bailer	MW-5	X	X	X					3	
11/12/2021	1020	GW	Bailer	MW-6	X	X	X					3	
11/12/2021	--	GW	Bailer	Dup-1	X							3	
11/12/2021	--		--	Trip Blank	X							1	

DEPARTMENT USE / OPTIONAL FOR SOIL SAMPLES	DEPARTMENT USE ONLY
Disposition of unused portion of sample Laboratory should (check) <input type="checkbox"/> Dispose <input type="checkbox"/> Return <input type="checkbox"/> Retain for _____ (days) <input type="checkbox"/> Other	Split Samples Offered <input type="checkbox"/> Y <input type="checkbox"/> N Accepted By: _____ Accepted <input type="checkbox"/> Y <input type="checkbox"/> N Signature: _____



Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-208388-1

Login Number: 208388

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Hernandez, Stephanie

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	-0.4 Samples not frozen
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-209013-1

Client Project/Site: Community Within the Corridor - 40449

For:

K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke



Authorized for release by:
12/14/2021 7:37:36 AM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

LINKS

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results through
TotalAccess

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Job ID: 500-209013-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-209013-1

Comments

No additional comments.

Receipt

The samples were received on 11/30/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

Method 8260B: Methylene chloride was detected in the following samples: Trip Blank (500-209013-2). The method blank associated with these samples was below the reporting limit for Methylene chloride. Methylene chloride is a known lab contaminant; therefore all low level detects for this compound could be suspected as lab contamination.

Method 8260B: The following sample was diluted to bring the concentration of target analytes within the calibration range: EB-MW-3 (500-209013-1). Elevated reporting limits (RLs) are provided.

Method 8260B: The method blank for 632466 contained Toluene and Xylenes, Total above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed. (MB 500-632466/6)

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

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Client Sample ID: EB-MW-3

Lab Sample ID: 500-209013-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.1		1.0	0.38	ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.8		1.0	0.35	ug/L	1		8260B	Total/NA
Trichloroethene	26		0.50	0.16	ug/L	1		8260B	Total/NA
1,1-Dichloroethane - DL	330		10	4.1	ug/L	10		8260B	Total/NA
cis-1,2-Dichloroethene - DL	340		10	4.1	ug/L	10		8260B	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 500-209013-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	4.1	J	5.0	1.6	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago

Method Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI

Protocol References:

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

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Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209013-1	EB-MW-3	Ground Water	11/29/21 14:14	11/30/21 10:40
500-209013-2	Trip Blank	Water	11/29/21 00:00	11/30/21 10:40

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Client Sample ID: EB-MW-3

Lab Sample ID: 500-209013-1

Date Collected: 11/29/21 14:14

Matrix: Ground Water

Date Received: 11/30/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/13/21 13:02	1
1,1,1-Trichloroethane	1.1		1.0	0.38	ug/L			12/13/21 13:02	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/13/21 13:02	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/13/21 13:02	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/13/21 13:02	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/13/21 13:02	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/13/21 13:02	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/13/21 13:02	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/13/21 13:02	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/13/21 13:02	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/13/21 13:02	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/13/21 13:02	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/13/21 13:02	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/13/21 13:02	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/13/21 13:02	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/13/21 13:02	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/13/21 13:02	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/13/21 13:02	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/13/21 13:02	1
Benzene	<0.15		0.50	0.15	ug/L			12/13/21 13:02	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/13/21 13:02	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/13/21 13:02	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/13/21 13:02	1
Bromoform	<0.48		1.0	0.48	ug/L			12/13/21 13:02	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/13/21 13:02	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/13/21 13:02	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/13/21 13:02	1
Chloroform	<0.37		2.0	0.37	ug/L			12/13/21 13:02	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/13/21 13:02	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/13/21 13:02	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/13/21 13:02	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/13/21 13:02	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/13/21 13:02	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/13/21 13:02	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/13/21 13:02	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/13/21 13:02	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/13/21 13:02	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/13/21 13:02	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/13/21 13:02	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/13/21 13:02	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/13/21 13:02	1
Styrene	<0.39		1.0	0.39	ug/L			12/13/21 13:02	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Client Sample ID: EB-MW-3

Lab Sample ID: 500-209013-1

Date Collected: 11/29/21 14:14

Matrix: Ground Water

Date Received: 11/30/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/13/21 13:02	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/13/21 13:02	1
Toluene	<0.15		0.50	0.15	ug/L			12/13/21 13:02	1
trans-1,2-Dichloroethene	2.8		1.0	0.35	ug/L			12/13/21 13:02	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/13/21 13:02	1
Trichloroethene	26		0.50	0.16	ug/L			12/13/21 13:02	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/13/21 13:02	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/13/21 13:02	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/13/21 13:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		75 - 126		12/13/21 13:02	1
4-Bromofluorobenzene (Surr)	87		72 - 124		12/13/21 13:02	1
Dibromofluoromethane (Surr)	85		75 - 120		12/13/21 13:02	1
Toluene-d8 (Surr)	101		75 - 120		12/13/21 13:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	330		10	4.1	ug/L			12/07/21 20:39	10
cis-1,2-Dichloroethene	340		10	4.1	ug/L			12/07/21 20:39	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		75 - 126		12/07/21 20:39	10
4-Bromofluorobenzene (Surr)	87		72 - 124		12/07/21 20:39	10
Dibromofluoromethane (Surr)	87		75 - 120		12/07/21 20:39	10
Toluene-d8 (Surr)	98		75 - 120		12/07/21 20:39	10

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-209013-2

Date Collected: 11/29/21 00:00

Matrix: Water

Date Received: 11/30/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/08/21 12:17	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/08/21 12:17	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/08/21 12:17	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/08/21 12:17	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/08/21 12:17	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/08/21 12:17	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/08/21 12:17	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/08/21 12:17	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/08/21 12:17	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/08/21 12:17	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/08/21 12:17	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/08/21 12:17	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/08/21 12:17	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/08/21 12:17	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/08/21 12:17	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/08/21 12:17	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/08/21 12:17	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/08/21 12:17	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/08/21 12:17	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/08/21 12:17	1
Benzene	<0.15		0.50	0.15	ug/L			12/08/21 12:17	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/08/21 12:17	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/08/21 12:17	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/08/21 12:17	1
Bromoform	<0.48		1.0	0.48	ug/L			12/08/21 12:17	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/08/21 12:17	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/08/21 12:17	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/08/21 12:17	1
Chloroform	<0.37		2.0	0.37	ug/L			12/08/21 12:17	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/08/21 12:17	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/08/21 12:17	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/08/21 12:17	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/08/21 12:17	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/08/21 12:17	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/08/21 12:17	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/08/21 12:17	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/08/21 12:17	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/08/21 12:17	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
Methylene Chloride	4.1 J		5.0	1.6	ug/L			12/08/21 12:17	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/08/21 12:17	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/08/21 12:17	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/08/21 12:17	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-209013-2

Date Collected: 11/29/21 00:00

Matrix: Water

Date Received: 11/30/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/21 12:17	1
Styrene	<0.39		1.0	0.39	ug/L			12/08/21 12:17	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/21 12:17	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/08/21 12:17	1
Toluene	<0.15		0.50	0.15	ug/L			12/08/21 12:17	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/08/21 12:17	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/08/21 12:17	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/08/21 12:17	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/08/21 12:17	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/08/21 12:17	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/08/21 12:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	78		75 - 126		12/08/21 12:17	1
4-Bromofluorobenzene (Surr)	85		72 - 124		12/08/21 12:17	1
Dibromofluoromethane (Surr)	82		75 - 120		12/08/21 12:17	1
Toluene-d8 (Surr)	99		75 - 120		12/08/21 12:17	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

GC/MS VOA

Analysis Batch: 632466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209013-1 - DL	EB-MW-3	Total/NA	Ground Water	8260B	
MB 500-632466/6	Method Blank	Total/NA	Water	8260B	
LCS 500-632466/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 632665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209013-2	Trip Blank	Total/NA	Water	8260B	
MB 500-632665/6	Method Blank	Total/NA	Water	8260B	
LCS 500-632665/4	Lab Control Sample	Total/NA	Water	8260B	

Analysis Batch: 633347

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209013-1	EB-MW-3	Total/NA	Ground Water	8260B	
MB 500-633347/6	Method Blank	Total/NA	Water	8260B	
LCS 500-633347/4	Lab Control Sample	Total/NA	Water	8260B	

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(75-126)	(72-124)	(75-120)	(75-120)
500-209013-1 - DL	EB-MW-3	83	87	87	98
500-209013-1	EB-MW-3	80	87	85	101

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA	BFB	DBFM	TOL
		(75-126)	(72-124)	(75-120)	(75-120)
500-209013-2	Trip Blank	78	85	82	99
LCS 500-632466/4	Lab Control Sample	86	87	90	95
LCS 500-632665/4	Lab Control Sample	82	87	87	99
LCS 500-633347/4	Lab Control Sample	83	87	89	97
MB 500-632466/6	Method Blank	83	85	84	97
MB 500-632665/6	Method Blank	83	86	84	99
MB 500-633347/6	Method Blank	82	88	84	99

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: MB 500-632466/6
 Matrix: Water
 Analysis Batch: 632466

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/07/21 13:43	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/07/21 13:43	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/07/21 13:43	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/07/21 13:43	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/07/21 13:43	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/07/21 13:43	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/07/21 13:43	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/07/21 13:43	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/07/21 13:43	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/07/21 13:43	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/07/21 13:43	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/07/21 13:43	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/07/21 13:43	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/07/21 13:43	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/07/21 13:43	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/07/21 13:43	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/07/21 13:43	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/07/21 13:43	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/07/21 13:43	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/07/21 13:43	1
Benzene	<0.15		0.50	0.15	ug/L			12/07/21 13:43	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/07/21 13:43	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/07/21 13:43	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/07/21 13:43	1
Bromoform	<0.48		1.0	0.48	ug/L			12/07/21 13:43	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/07/21 13:43	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/07/21 13:43	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/07/21 13:43	1
Chloroform	<0.37		2.0	0.37	ug/L			12/07/21 13:43	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/07/21 13:43	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/07/21 13:43	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/07/21 13:43	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/07/21 13:43	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/07/21 13:43	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/07/21 13:43	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/07/21 13:43	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/07/21 13:43	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/07/21 13:43	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/07/21 13:43	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/07/21 13:43	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/07/21 13:43	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: MB 500-632466/6
Matrix: Water
Analysis Batch: 632466

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/07/21 13:43	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/07/21 13:43	1
Styrene	<0.39		1.0	0.39	ug/L			12/07/21 13:43	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/07/21 13:43	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/07/21 13:43	1
Toluene	0.248	J	0.50	0.15	ug/L			12/07/21 13:43	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/07/21 13:43	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/07/21 13:43	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/07/21 13:43	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/07/21 13:43	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/07/21 13:43	1
Xylenes, Total	0.292	J	1.0	0.22	ug/L			12/07/21 13:43	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	83		75 - 126		12/07/21 13:43	1
4-Bromofluorobenzene (Surr)	85		72 - 124		12/07/21 13:43	1
Dibromofluoromethane (Surr)	84		75 - 120		12/07/21 13:43	1
Toluene-d8 (Surr)	97		75 - 120		12/07/21 13:43	1

Lab Sample ID: LCS 500-632466/4
Matrix: Water
Analysis Batch: 632466

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.2		ug/L		96	70 - 125
1,1,1,2-Tetrachloroethane	50.0	44.3		ug/L		89	62 - 140
1,1,2-Trichloroethane	50.0	47.8		ug/L		96	71 - 130
1,1-Dichloroethane	50.0	51.7		ug/L		103	70 - 125
1,1-Dichloroethene	50.0	50.3		ug/L		101	67 - 122
1,1-Dichloropropene	50.0	53.4		ug/L		107	70 - 121
1,2,3-Trichlorobenzene	50.0	61.6		ug/L		123	51 - 145
1,2,3-Trichloropropane	50.0	45.8		ug/L		92	50 - 133
1,2,4-Trichlorobenzene	50.0	63.7		ug/L		127	57 - 137
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	43.7		ug/L		87	56 - 123
1,2-Dibromoethane	50.0	50.8		ug/L		102	70 - 125
1,2-Dichlorobenzene	50.0	54.0		ug/L		108	70 - 125
1,2-Dichloroethane	50.0	48.7		ug/L		97	68 - 127
1,2-Dichloropropane	50.0	54.0		ug/L		108	67 - 130
1,3,5-Trimethylbenzene	50.0	49.7		ug/L		99	70 - 123
1,3-Dichlorobenzene	50.0	52.9		ug/L		106	70 - 125
1,3-Dichloropropane	50.0	51.8		ug/L		104	62 - 136
1,4-Dichlorobenzene	50.0	53.6		ug/L		107	70 - 120
2,2-Dichloropropane	50.0	53.3		ug/L		107	58 - 139
2-Chlorotoluene	50.0	47.9		ug/L		96	70 - 125
4-Chlorotoluene	50.0	48.7		ug/L		97	68 - 124
Benzene	50.0	52.1		ug/L		104	70 - 120

Euofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: LCS 500-632466/4
Matrix: Water
Analysis Batch: 632466

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	50.0	52.0		ug/L		104	70 - 122
Bromochloromethane	50.0	51.7		ug/L		103	65 - 122
Bromodichloromethane	50.0	45.7		ug/L		91	69 - 120
Bromoform	50.0	44.1		ug/L		88	56 - 132
Bromomethane	50.0	44.8		ug/L		90	40 - 152
Carbon tetrachloride	50.0	49.7		ug/L		99	59 - 133
Chlorobenzene	50.0	53.7		ug/L		107	70 - 120
Chloroethane	50.0	39.5		ug/L		79	48 - 136
Chloroform	50.0	49.2		ug/L		98	70 - 120
Chloromethane	50.0	61.6		ug/L		123	56 - 152
cis-1,2-Dichloroethene	50.0	51.9		ug/L		104	70 - 125
cis-1,3-Dichloropropene	50.0	50.1		ug/L		100	64 - 127
Dibromochloromethane	50.0	47.8		ug/L		96	68 - 125
Dibromomethane	50.0	48.8		ug/L		98	70 - 120
Dichlorodifluoromethane	50.0	49.5		ug/L		99	40 - 159
Ethylbenzene	50.0	53.8		ug/L		108	70 - 123
Hexachlorobutadiene	50.0	57.4		ug/L		115	51 - 150
Isopropylbenzene	50.0	49.8		ug/L		100	70 - 126
Methyl tert-butyl ether	50.0	48.0		ug/L		96	55 - 123
Methylene Chloride	50.0	49.8		ug/L		100	69 - 125
Naphthalene	50.0	56.8		ug/L		114	53 - 144
n-Butylbenzene	50.0	50.8		ug/L		102	68 - 125
N-Propylbenzene	50.0	49.5		ug/L		99	69 - 127
p-Isopropyltoluene	50.0	52.1		ug/L		104	70 - 125
sec-Butylbenzene	50.0	50.0		ug/L		100	70 - 123
Styrene	50.0	49.6		ug/L		99	70 - 120
tert-Butylbenzene	50.0	51.0		ug/L		102	70 - 121
Tetrachloroethene	50.0	57.7		ug/L		115	70 - 128
Toluene	50.0	52.8		ug/L		106	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	70 - 125
trans-1,3-Dichloropropene	50.0	47.4		ug/L		95	62 - 128
Trichloroethene	50.0	57.1		ug/L		114	70 - 125
Trichlorofluoromethane	50.0	50.3		ug/L		101	55 - 128
Vinyl chloride	50.0	55.4		ug/L		111	64 - 126
Xylenes, Total	100	102		ug/L		102	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	86		75 - 126
4-Bromofluorobenzene (Surr)	87		72 - 124
Dibromofluoromethane (Surr)	90		75 - 120
Toluene-d8 (Surr)	95		75 - 120

Lab Sample ID: MB 500-632665/6
Matrix: Water
Analysis Batch: 632665

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/08/21 11:50	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: MB 500-632665/6
Matrix: Water
Analysis Batch: 632665

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/08/21 11:50	1
1,1,1,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/08/21 11:50	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/08/21 11:50	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/08/21 11:50	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/08/21 11:50	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/08/21 11:50	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/08/21 11:50	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/08/21 11:50	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/08/21 11:50	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/08/21 11:50	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/08/21 11:50	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/08/21 11:50	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/08/21 11:50	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/08/21 11:50	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/08/21 11:50	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/08/21 11:50	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/08/21 11:50	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/08/21 11:50	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/08/21 11:50	1
Benzene	<0.15		0.50	0.15	ug/L			12/08/21 11:50	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/08/21 11:50	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/08/21 11:50	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/08/21 11:50	1
Bromoform	<0.48		1.0	0.48	ug/L			12/08/21 11:50	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/08/21 11:50	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/08/21 11:50	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/08/21 11:50	1
Chloroform	<0.37		2.0	0.37	ug/L			12/08/21 11:50	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/08/21 11:50	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/08/21 11:50	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/08/21 11:50	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/08/21 11:50	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/08/21 11:50	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/08/21 11:50	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/08/21 11:50	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/08/21 11:50	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/08/21 11:50	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/08/21 11:50	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/08/21 11:50	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/08/21 11:50	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/08/21 11:50	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/21 11:50	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: MB 500-632665/6
Matrix: Water
Analysis Batch: 632665

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

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Styrene	<0.39		1.0	0.39	ug/L			12/08/21 11:50	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/08/21 11:50	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/08/21 11:50	1
Toluene	<0.15		0.50	0.15	ug/L			12/08/21 11:50	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/08/21 11:50	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/08/21 11:50	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/08/21 11:50	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/08/21 11:50	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/08/21 11:50	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/08/21 11:50	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	83		75 - 126		12/08/21 11:50	1
4-Bromofluorobenzene (Surr)	86		72 - 124		12/08/21 11:50	1
Dibromofluoromethane (Surr)	84		75 - 120		12/08/21 11:50	1
Toluene-d8 (Surr)	99		75 - 120		12/08/21 11:50	1

Lab Sample ID: LCS 500-632665/4
Matrix: Water
Analysis Batch: 632665

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	42.2		ug/L		84	70 - 125
1,1,2,2-Tetrachloroethane	50.0	40.3		ug/L		81	62 - 140
1,1,2-Trichloroethane	50.0	42.9		ug/L		86	71 - 130
1,1-Dichloroethane	50.0	45.3		ug/L		91	70 - 125
1,1-Dichloroethene	50.0	44.2		ug/L		88	67 - 122
1,1-Dichloropropene	50.0	46.9		ug/L		94	70 - 121
1,2,3-Trichlorobenzene	50.0	61.2		ug/L		122	51 - 145
1,2,3-Trichloropropane	50.0	42.9		ug/L		86	50 - 133
1,2,4-Trichlorobenzene	50.0	59.8		ug/L		120	57 - 137
1,2,4-Trimethylbenzene	50.0	46.6		ug/L		93	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	36.8		ug/L		74	56 - 123
1,2-Dibromoethane	50.0	45.3		ug/L		91	70 - 125
1,2-Dichlorobenzene	50.0	50.0		ug/L		100	70 - 125
1,2-Dichloroethane	50.0	41.7		ug/L		83	68 - 127
1,2-Dichloropropane	50.0	47.9		ug/L		96	67 - 130
1,3,5-Trimethylbenzene	50.0	47.0		ug/L		94	70 - 123
1,3-Dichlorobenzene	50.0	50.1		ug/L		100	70 - 125
1,3-Dichloropropane	50.0	46.9		ug/L		94	62 - 136
1,4-Dichlorobenzene	50.0	50.6		ug/L		101	70 - 120
2,2-Dichloropropane	50.0	45.6		ug/L		91	58 - 139
2-Chlorotoluene	50.0	44.9		ug/L		90	70 - 125
4-Chlorotoluene	50.0	45.2		ug/L		90	68 - 124
Benzene	50.0	45.5		ug/L		91	70 - 120
Bromobenzene	50.0	49.2		ug/L		98	70 - 122
Bromochloromethane	50.0	44.0		ug/L		88	65 - 122

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: LCS 500-632665/4
Matrix: Water
Analysis Batch: 632665

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	40.5		ug/L		81	69 - 120
Bromoform	50.0	40.1		ug/L		80	56 - 132
Bromomethane	50.0	35.6		ug/L		71	40 - 152
Carbon tetrachloride	50.0	44.3		ug/L		89	59 - 133
Chlorobenzene	50.0	49.2		ug/L		98	70 - 120
Chloroethane	50.0	31.3		ug/L		63	48 - 136
Chloroform	50.0	42.8		ug/L		86	70 - 120
Chloromethane	50.0	48.5		ug/L		97	56 - 152
cis-1,2-Dichloroethene	50.0	44.8		ug/L		90	70 - 125
cis-1,3-Dichloropropene	50.0	46.2		ug/L		92	64 - 127
Dibromochloromethane	50.0	43.4		ug/L		87	68 - 125
Dibromomethane	50.0	42.2		ug/L		84	70 - 120
Dichlorodifluoromethane	50.0	37.7		ug/L		75	40 - 159
Ethylbenzene	50.0	48.9		ug/L		98	70 - 123
Hexachlorobutadiene	50.0	53.8		ug/L		108	51 - 150
Isopropylbenzene	50.0	47.4		ug/L		95	70 - 126
Methyl tert-butyl ether	50.0	40.8		ug/L		82	55 - 123
Methylene Chloride	50.0	44.9		ug/L		90	69 - 125
Naphthalene	50.0	53.8		ug/L		108	53 - 144
n-Butylbenzene	50.0	48.1		ug/L		96	68 - 125
N-Propylbenzene	50.0	46.9		ug/L		94	69 - 127
p-Isopropyltoluene	50.0	49.2		ug/L		98	70 - 125
sec-Butylbenzene	50.0	46.7		ug/L		93	70 - 123
Styrene	50.0	45.3		ug/L		91	70 - 120
tert-Butylbenzene	50.0	48.0		ug/L		96	70 - 121
Tetrachloroethene	50.0	54.7		ug/L		109	70 - 128
Toluene	50.0	49.3		ug/L		99	70 - 125
trans-1,2-Dichloroethene	50.0	44.2		ug/L		88	70 - 125
trans-1,3-Dichloropropene	50.0	43.2		ug/L		86	62 - 128
Trichloroethene	50.0	50.9		ug/L		102	70 - 125
Trichlorofluoromethane	50.0	39.7		ug/L		79	55 - 128
Vinyl chloride	50.0	43.1		ug/L		86	64 - 126
Xylenes, Total	100	94.1		ug/L		94	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		75 - 126
4-Bromofluorobenzene (Surr)	87		72 - 124
Dibromofluoromethane (Surr)	87		75 - 120
Toluene-d8 (Surr)	99		75 - 120

Lab Sample ID: MB 500-633347/6
Matrix: Water
Analysis Batch: 633347

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/13/21 11:42	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/13/21 11:42	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/13/21 11:42	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: MB 500-633347/6
Matrix: Water
Analysis Batch: 633347

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/13/21 11:42	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/13/21 11:42	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/13/21 11:42	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/13/21 11:42	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/13/21 11:42	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/13/21 11:42	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/13/21 11:42	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/13/21 11:42	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/13/21 11:42	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/13/21 11:42	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/13/21 11:42	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/13/21 11:42	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/13/21 11:42	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/13/21 11:42	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/13/21 11:42	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/13/21 11:42	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/13/21 11:42	1
Benzene	<0.15		0.50	0.15	ug/L			12/13/21 11:42	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/13/21 11:42	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/13/21 11:42	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/13/21 11:42	1
Bromoform	<0.48		1.0	0.48	ug/L			12/13/21 11:42	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/13/21 11:42	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/13/21 11:42	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/13/21 11:42	1
Chloroform	<0.37		2.0	0.37	ug/L			12/13/21 11:42	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/13/21 11:42	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/13/21 11:42	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/13/21 11:42	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/13/21 11:42	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/13/21 11:42	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/13/21 11:42	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/13/21 11:42	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/13/21 11:42	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/13/21 11:42	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/13/21 11:42	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/13/21 11:42	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/13/21 11:42	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/13/21 11:42	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/13/21 11:42	1
Styrene	<0.39		1.0	0.39	ug/L			12/13/21 11:42	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/13/21 11:42	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: MB 500-633347/6
Matrix: Water
Analysis Batch: 633347

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/13/21 11:42	1
Toluene	<0.15		0.50	0.15	ug/L			12/13/21 11:42	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/13/21 11:42	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/13/21 11:42	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/13/21 11:42	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/13/21 11:42	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/13/21 11:42	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/13/21 11:42	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	82		75 - 126		12/13/21 11:42	1
4-Bromofluorobenzene (Surr)	88		72 - 124		12/13/21 11:42	1
Dibromofluoromethane (Surr)	84		75 - 120		12/13/21 11:42	1
Toluene-d8 (Surr)	99		75 - 120		12/13/21 11:42	1

Lab Sample ID: LCS 500-633347/4
Matrix: Water
Analysis Batch: 633347

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

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec. Limits
		Result	Qualifier				
1,1,1,2-Tetrachloroethane	50.0	48.2		ug/L		96	70 - 125
1,1,1-Trichloroethane	50.0	44.6		ug/L		89	70 - 125
1,1,2,2-Tetrachloroethane	50.0	42.5		ug/L		85	62 - 140
1,1,2-Trichloroethane	50.0	46.2		ug/L		92	71 - 130
1,1-Dichloroethane	50.0	49.6		ug/L		99	70 - 125
1,1-Dichloroethene	50.0	46.9		ug/L		94	67 - 122
1,1-Dichloropropene	50.0	50.0		ug/L		100	70 - 121
1,2,3-Trichlorobenzene	50.0	57.0		ug/L		114	51 - 145
1,2,3-Trichloropropane	50.0	44.0		ug/L		88	50 - 133
1,2,4-Trichlorobenzene	50.0	57.5		ug/L		115	57 - 137
1,2,4-Trimethylbenzene	50.0	47.9		ug/L		96	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	37.6		ug/L		75	56 - 123
1,2-Dibromoethane	50.0	47.8		ug/L		96	70 - 125
1,2-Dichlorobenzene	50.0	51.8		ug/L		104	70 - 125
1,2-Dichloroethane	50.0	44.2		ug/L		88	68 - 127
1,2-Dichloropropane	50.0	51.8		ug/L		104	67 - 130
1,3,5-Trimethylbenzene	50.0	48.4		ug/L		97	70 - 123
1,3-Dichlorobenzene	50.0	50.5		ug/L		101	70 - 125
1,3-Dichloropropane	50.0	49.1		ug/L		98	62 - 136
1,4-Dichlorobenzene	50.0	51.1		ug/L		102	70 - 120
2,2-Dichloropropane	50.0	47.9		ug/L		96	58 - 139
2-Chlorotoluene	50.0	46.8		ug/L		94	70 - 125
4-Chlorotoluene	50.0	47.2		ug/L		94	68 - 124
Benzene	50.0	48.6		ug/L		97	70 - 120
Bromobenzene	50.0	50.1		ug/L		100	70 - 122
Bromochloromethane	50.0	47.4		ug/L		95	65 - 122
Bromodichloromethane	50.0	42.2		ug/L		84	69 - 120
Bromoform	50.0	41.4		ug/L		83	56 - 132

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

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

Lab Sample ID: LCS 500-633347/4
Matrix: Water
Analysis Batch: 633347

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromomethane	50.0	37.7		ug/L		75	40 - 152
Carbon tetrachloride	50.0	46.6		ug/L		93	59 - 133
Chlorobenzene	50.0	51.0		ug/L		102	70 - 120
Chloroethane	50.0	36.0		ug/L		72	48 - 136
Chloroform	50.0	45.8		ug/L		92	70 - 120
Chloromethane	50.0	56.7		ug/L		113	56 - 152
cis-1,2-Dichloroethene	50.0	48.5		ug/L		97	70 - 125
cis-1,3-Dichloropropene	50.0	47.5		ug/L		95	64 - 127
Dibromochloromethane	50.0	45.1		ug/L		90	68 - 125
Dibromomethane	50.0	45.1		ug/L		90	70 - 120
Dichlorodifluoromethane	50.0	33.3		ug/L		67	40 - 159
Ethylbenzene	50.0	51.4		ug/L		103	70 - 123
Hexachlorobutadiene	50.0	51.2		ug/L		102	51 - 150
Isopropylbenzene	50.0	49.3		ug/L		99	70 - 126
Methyl tert-butyl ether	50.0	42.7		ug/L		85	55 - 123
Methylene Chloride	50.0	45.5		ug/L		91	69 - 125
Naphthalene	50.0	53.0		ug/L		106	53 - 144
n-Butylbenzene	50.0	50.0		ug/L		100	68 - 125
N-Propylbenzene	50.0	49.0		ug/L		98	69 - 127
p-Isopropyltoluene	50.0	50.6		ug/L		101	70 - 125
sec-Butylbenzene	50.0	48.7		ug/L		97	70 - 123
Styrene	50.0	47.4		ug/L		95	70 - 120
tert-Butylbenzene	50.0	49.2		ug/L		98	70 - 121
Tetrachloroethene	50.0	53.7		ug/L		107	70 - 128
Toluene	50.0	50.8		ug/L		102	70 - 125
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	70 - 125
trans-1,3-Dichloropropene	50.0	43.4		ug/L		87	62 - 128
Trichloroethene	50.0	53.9		ug/L		108	70 - 125
Trichlorofluoromethane	50.0	43.8		ug/L		88	55 - 128
Vinyl chloride	50.0	47.9		ug/L		96	64 - 126
Xylenes, Total	100	96.7		ug/L		97	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	83		75 - 126
4-Bromofluorobenzene (Surr)	87		72 - 124
Dibromofluoromethane (Surr)	89		75 - 120
Toluene-d8 (Surr)	97		75 - 120

Lab Chronicle

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Client Sample ID: EB-MW-3

Date Collected: 11/29/21 14:14

Date Received: 11/30/21 10:40

Lab Sample ID: 500-209013-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	632466	12/07/21 20:39	PSP	TAL CHI
Total/NA	Analysis	8260B		1	633347	12/13/21 13:02	PSP	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 11/29/21 00:00

Date Received: 11/30/21 10:40

Lab Sample ID: 500-209013-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	632665	12/08/21 12:17	PSP	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200



Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor - 40449

Job ID: 500-209013-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

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Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-209013-1

Login Number: 209013

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.5
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



ANALYTICAL REPORT

Eurofins TestAmerica, Chicago
2417 Bond Street
University Park, IL 60484
Tel: (708)534-5200

Laboratory Job ID: 500-209778-1

Client Project/Site: Community Within the Corridor East Block -
40449

For:

K. Singh & Associates, Inc
3636 N. 124th Street
Wauwatosa, Wisconsin 53222

Attn: Mr. Robert Reineke



Authorized for release by:
12/30/2021 1:02:50 PM

Sandie Fredrick, Project Manager II
(920)261-1660
sandra.fredrick@eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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



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Case Narrative

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block - 40449

Job ID: 500-209778-1

Job ID: 500-209778-1

Laboratory: Eurofins TestAmerica, Chicago

Narrative

Job Narrative 500-209778-1

Comments

No additional comments.

Receipt

The samples were received on 12/15/2021 10:40 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 1.7° C.

Receipt Exceptions

Did not receive a preserved bottle for metals - lab filtration required.

GC/MS VOA

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

GC/MS Semi VOA

Method 8270D: The laboratory control sample (LCS) for preparation batch 500-634185 and analytical batch 500-634865 recovered outside control limits for the following analytes: 4-Chloroaniline and 4-Nitroaniline. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8270D: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 500-634185 and analytical batch 500-634865 recovered outside control limits for several analytes. No corrective action was required.

Method 8270D: The following sample required a dilution due to the nature of the sample matrix: MW-4R (500-209778-1). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

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

Metals

Method 6020A: The method blank for preparation batch 500-634526 and 500-635936 and analytical batch 500-636088 contained Barium (Ba) and Lead (Pb) above the reporting limit (RL). Associated sample(s) were not re-extracted and/or re-analyzed because results for Ba were greater than 10X the value found in the method blank and Pb was non-detect.

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

Organic Prep

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

Detection Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

Client Sample ID: MW-4R

Lab Sample ID: 500-209778-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzoic acid	10	J *1	15	4.3	ug/L	1		8270D	Total/NA
Pentachlorophenol - DL	1000		750	150	ug/L	50		8270D	Total/NA
Arsenic	0.92	J	1.0	0.23	ug/L	1		6020A	Dissolved
Barium	140	B	2.5	0.73	ug/L	1		6020A	Dissolved
Selenium	4.8		2.5	0.98	ug/L	1		6020A	Dissolved

Client Sample ID: Trip Blank

Lab Sample ID: 500-209778-2

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Chicago



Method Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CHI
8270D	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CHI
6020A	Metals (ICP/MS)	SW846	TAL CHI
7470A	Mercury (CVAA)	SW846	TAL CHI
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL CHI
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CHI
5030B	Purge and Trap	SW846	TAL CHI
7470A	Preparation, Mercury	SW846	TAL CHI
FILTRATION	Sample Filtration	None	TAL CHI

Protocol References:

None = None

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

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Sample Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
500-209778-1	MW-4R	Ground Water	12/14/21 11:45	12/15/21 10:40
500-209778-2	Trip Blank	Water	12/14/21 00:00	12/15/21 10:40

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Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: MW-4R

Lab Sample ID: 500-209778-1

Date Collected: 12/14/21 11:45

Matrix: Ground Water

Date Received: 12/15/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/24/21 13:41	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/24/21 13:41	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/24/21 13:41	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/24/21 13:41	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/24/21 13:41	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/24/21 13:41	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/24/21 13:41	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/24/21 13:41	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/24/21 13:41	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/24/21 13:41	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/24/21 13:41	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/24/21 13:41	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/24/21 13:41	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/24/21 13:41	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/24/21 13:41	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/24/21 13:41	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/24/21 13:41	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/24/21 13:41	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/24/21 13:41	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/24/21 13:41	1
Benzene	<0.15		0.50	0.15	ug/L			12/24/21 13:41	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/24/21 13:41	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/24/21 13:41	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/24/21 13:41	1
Bromoform	<0.48		1.0	0.48	ug/L			12/24/21 13:41	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/24/21 13:41	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/24/21 13:41	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/24/21 13:41	1
Chloroform	<0.37		2.0	0.37	ug/L			12/24/21 13:41	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/24/21 13:41	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/24/21 13:41	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/24/21 13:41	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/24/21 13:41	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/24/21 13:41	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/24/21 13:41	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/24/21 13:41	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/24/21 13:41	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/24/21 13:41	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/24/21 13:41	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/24/21 13:41	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/24/21 13:41	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: MW-4R

Lab Sample ID: 500-209778-1

Date Collected: 12/14/21 11:45

Matrix: Ground Water

Date Received: 12/15/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/24/21 13:41	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/24/21 13:41	1
Styrene	<0.39		1.0	0.39	ug/L			12/24/21 13:41	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/24/21 13:41	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/24/21 13:41	1
Toluene	<0.15		0.50	0.15	ug/L			12/24/21 13:41	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/24/21 13:41	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/24/21 13:41	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/24/21 13:41	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/24/21 13:41	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/24/21 13:41	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/24/21 13:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		12/24/21 13:41	1
4-Bromofluorobenzene (Surr)	82		72 - 124		12/24/21 13:41	1
Dibromofluoromethane (Surr)	92		75 - 120		12/24/21 13:41	1
Toluene-d8 (Surr)	95		75 - 120		12/24/21 13:41	1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.18	*1	1.5	0.18	ug/L		12/17/21 07:18	12/23/21 18:56	1
1,2-Dichlorobenzene	<0.18	*1	1.5	0.18	ug/L		12/17/21 07:18	12/23/21 18:56	1
1,3-Dichlorobenzene	<0.16		1.5	0.16	ug/L		12/17/21 07:18	12/23/21 18:56	1
1,4-Dichlorobenzene	<0.16	*1	1.5	0.16	ug/L		12/17/21 07:18	12/23/21 18:56	1
1-Methylnaphthalene	<0.23	*1	1.5	0.23	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,2'-oxybis[1-chloropropane]	<0.28	*1	1.5	0.28	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,4,5-Trichlorophenol	<1.9	*1	7.5	1.9	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,4,6-Trichlorophenol	<0.54	*1	3.7	0.54	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,4-Dichlorophenol	<1.9	*1	7.5	1.9	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,4-Dimethylphenol	<1.3	*1	7.5	1.3	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,4-Dinitrophenol	<6.4	*1	15	6.4	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,4-Dinitrotoluene	<0.18	*1	0.75	0.18	ug/L		12/17/21 07:18	12/23/21 18:56	1
2,6-Dinitrotoluene	<0.055	*1	0.75	0.055	ug/L		12/17/21 07:18	12/23/21 18:56	1
2-Chloronaphthalene	<0.18	*1	1.5	0.18	ug/L		12/17/21 07:18	12/23/21 18:56	1
2-Chlorophenol	<0.42	*1	3.7	0.42	ug/L		12/17/21 07:18	12/23/21 18:56	1
2-Methylnaphthalene	<0.049	*1	1.5	0.049	ug/L		12/17/21 07:18	12/23/21 18:56	1
2-Methylphenol	<0.23	*1	1.5	0.23	ug/L		12/17/21 07:18	12/23/21 18:56	1
2-Nitroaniline	<0.96	*1	3.7	0.96	ug/L		12/17/21 07:18	12/23/21 18:56	1
2-Nitrophenol	<1.9	*1	7.5	1.9	ug/L		12/17/21 07:18	12/23/21 18:56	1
3 & 4 Methylphenol	<0.34	*1	1.5	0.34	ug/L		12/17/21 07:18	12/23/21 18:56	1
3,3'-Dichlorobenzidine	<1.3	*1	3.7	1.3	ug/L		12/17/21 07:18	12/23/21 18:56	1
3-Nitroaniline	<1.3	*1	7.5	1.3	ug/L		12/17/21 07:18	12/23/21 18:56	1
4,6-Dinitro-2-methylphenol	<4.4	*1	15	4.4	ug/L		12/17/21 07:18	12/23/21 18:56	1
4-Bromophenyl phenyl ether	<0.40	*1	3.7	0.40	ug/L		12/17/21 07:18	12/23/21 18:56	1
4-Chloro-3-methylphenol	<1.7	*1	7.5	1.7	ug/L		12/17/21 07:18	12/23/21 18:56	1
4-Chloroaniline	<1.5	*+ *1	7.5	1.5	ug/L		12/17/21 07:18	12/23/21 18:56	1
4-Chlorophenyl phenyl ether	<0.48	*1	3.7	0.48	ug/L		12/17/21 07:18	12/23/21 18:56	1
4-Nitroaniline	<1.2	*+ *1	7.5	1.2	ug/L		12/17/21 07:18	12/23/21 18:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: MW-4R

Lab Sample ID: 500-209778-1

Date Collected: 12/14/21 11:45

Matrix: Ground Water

Date Received: 12/15/21 10:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Nitrophenol	<5.6	*1	15	5.6	ug/L		12/17/21 07:18	12/23/21 18:56	1
Acenaphthene	<0.23	*1	0.75	0.23	ug/L		12/17/21 07:18	12/23/21 18:56	1
Acenaphthylene	<0.20	*1	0.75	0.20	ug/L		12/17/21 07:18	12/23/21 18:56	1
Anthracene	<0.25		0.75	0.25	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzo[a]anthracene	<0.042		0.15	0.042	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzo[a]pyrene	<0.074		0.15	0.074	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzo[b]fluoranthene	<0.060		0.15	0.060	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzo[g,h,i]perylene	<0.28		0.75	0.28	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzo[k]fluoranthene	<0.048		0.15	0.048	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzoic acid	10	J *1	15	4.3	ug/L		12/17/21 07:18	12/23/21 18:56	1
Benzyl alcohol	<4.5	*1	15	4.5	ug/L		12/17/21 07:18	12/23/21 18:56	1
Bis(2-chloroethoxy)methane	<0.21	*1	1.5	0.21	ug/L		12/17/21 07:18	12/23/21 18:56	1
Bis(2-chloroethyl)ether	<0.22	*1	1.5	0.22	ug/L		12/17/21 07:18	12/23/21 18:56	1
Bis(2-ethylhexyl) phthalate	<1.3		7.5	1.3	ug/L		12/17/21 07:18	12/23/21 18:56	1
Butyl benzyl phthalate	<0.36		1.5	0.36	ug/L		12/17/21 07:18	12/23/21 18:56	1
Carbazole	<0.26		3.7	0.26	ug/L		12/17/21 07:18	12/23/21 18:56	1
Chrysene	<0.051		0.15	0.051	ug/L		12/17/21 07:18	12/23/21 18:56	1
Dibenz(a,h)anthracene	<0.038		0.22	0.038	ug/L		12/17/21 07:18	12/23/21 18:56	1
Dibenzofuran	<0.20	*1	1.5	0.20	ug/L		12/17/21 07:18	12/23/21 18:56	1
Diethyl phthalate	<0.27	*1	3.7	0.27	ug/L		12/17/21 07:18	12/23/21 18:56	1
Dimethyl phthalate	<0.24	*1	3.7	0.24	ug/L		12/17/21 07:18	12/23/21 18:56	1
Di-n-butyl phthalate	<0.55	*1	3.7	0.55	ug/L		12/17/21 07:18	12/23/21 18:56	1
Di-n-octyl phthalate	<0.79		7.5	0.79	ug/L		12/17/21 07:18	12/23/21 18:56	1
Fluoranthene	<0.34		0.75	0.34	ug/L		12/17/21 07:18	12/23/21 18:56	1
Fluorene	<0.18	*1	0.75	0.18	ug/L		12/17/21 07:18	12/23/21 18:56	1
Hexachlorobenzene	<0.059		0.37	0.059	ug/L		12/17/21 07:18	12/23/21 18:56	1
Hexachlorobutadiene	<0.39	*1	3.7	0.39	ug/L		12/17/21 07:18	12/23/21 18:56	1
Hexachlorocyclopentadiene	<4.8	*1	15	4.8	ug/L		12/17/21 07:18	12/23/21 18:56	1
Hexachloroethane	<0.45		3.7	0.45	ug/L		12/17/21 07:18	12/23/21 18:56	1
Indeno[1,2,3-cd]pyrene	<0.056	*1	0.15	0.056	ug/L		12/17/21 07:18	12/23/21 18:56	1
Isophorone	<0.28	*1	1.5	0.28	ug/L		12/17/21 07:18	12/23/21 18:56	1
Naphthalene	<0.23	*1	0.75	0.23	ug/L		12/17/21 07:18	12/23/21 18:56	1
Nitrobenzene	<0.34	*1	0.75	0.34	ug/L		12/17/21 07:18	12/23/21 18:56	1
N-Nitrosodi-n-propylamine	<0.12	*1	0.37	0.12	ug/L		12/17/21 07:18	12/23/21 18:56	1
N-Nitrosodiphenylamine	<0.28		1.5	0.28	ug/L		12/17/21 07:18	12/23/21 18:56	1
Phenanthrene	<0.23	*1	0.75	0.23	ug/L		12/17/21 07:18	12/23/21 18:56	1
Phenol	<0.50	*1	3.7	0.50	ug/L		12/17/21 07:18	12/23/21 18:56	1
Pyrene	<0.32		0.75	0.32	ug/L		12/17/21 07:18	12/23/21 18:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	98		40 - 145	12/17/21 07:18	12/23/21 18:56	1
2-Fluorobiphenyl (Surr)	70		34 - 110	12/17/21 07:18	12/23/21 18:56	1
2-Fluorophenol (Surr)	51		27 - 110	12/17/21 07:18	12/23/21 18:56	1
Nitrobenzene-d5 (Surr)	77		36 - 120	12/17/21 07:18	12/23/21 18:56	1
Phenol-d5 (Surr)	42		20 - 110	12/17/21 07:18	12/23/21 18:56	1
Terphenyl-d14 (Surr)	89		40 - 145	12/17/21 07:18	12/23/21 18:56	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: MW-4R

Lab Sample ID: 500-209778-1

Date Collected: 12/14/21 11:45

Matrix: Ground Water

Date Received: 12/15/21 10:40

Method: 8270D - Semivolatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pentachlorophenol	1000		750	150	ug/L		12/17/21 07:18	12/29/21 19:52	50
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	0	D	40 - 145				12/17/21 07:18	12/29/21 19:52	50
2-Fluorobiphenyl (Surr)	0	D	34 - 110				12/17/21 07:18	12/29/21 19:52	50
2-Fluorophenol (Surr)	0	D	27 - 110				12/17/21 07:18	12/29/21 19:52	50
Nitrobenzene-d5 (Surr)	0	D	36 - 120				12/17/21 07:18	12/29/21 19:52	50
Phenol-d5 (Surr)	0	D	20 - 110				12/17/21 07:18	12/29/21 19:52	50
Terphenyl-d14 (Surr)	0	D	40 - 145				12/17/21 07:18	12/29/21 19:52	50

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.92	J	1.0	0.23	ug/L		12/29/21 10:14	12/29/21 20:31	1
Barium	140	B	2.5	0.73	ug/L		12/29/21 10:14	12/29/21 20:31	1
Cadmium	<0.17		0.50	0.17	ug/L		12/29/21 10:14	12/29/21 20:31	1
Chromium	<1.1		5.0	1.1	ug/L		12/29/21 10:14	12/29/21 20:31	1
Lead	<0.19		0.50	0.19	ug/L		12/29/21 10:14	12/29/21 20:31	1
Selenium	4.8		2.5	0.98	ug/L		12/29/21 10:14	12/29/21 20:31	1
Silver	<0.12		0.50	0.12	ug/L		12/29/21 10:14	12/29/21 20:31	1

Method: 7470A - Mercury (CVAA) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		12/20/21 10:50	12/21/21 09:48	1

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-209778-2

Date Collected: 12/14/21 00:00

Matrix: Water

Date Received: 12/15/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/24/21 12:19	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/24/21 12:19	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/24/21 12:19	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/24/21 12:19	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/24/21 12:19	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/24/21 12:19	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/24/21 12:19	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/24/21 12:19	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/24/21 12:19	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/24/21 12:19	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/24/21 12:19	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/24/21 12:19	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/24/21 12:19	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/24/21 12:19	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/24/21 12:19	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/24/21 12:19	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/24/21 12:19	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/24/21 12:19	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/24/21 12:19	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/24/21 12:19	1
Benzene	<0.15		0.50	0.15	ug/L			12/24/21 12:19	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/24/21 12:19	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/24/21 12:19	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/24/21 12:19	1
Bromoform	<0.48		1.0	0.48	ug/L			12/24/21 12:19	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/24/21 12:19	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/24/21 12:19	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/24/21 12:19	1
Chloroform	<0.37		2.0	0.37	ug/L			12/24/21 12:19	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/24/21 12:19	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/24/21 12:19	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/24/21 12:19	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/24/21 12:19	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/24/21 12:19	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/24/21 12:19	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/24/21 12:19	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/24/21 12:19	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/24/21 12:19	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/24/21 12:19	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/24/21 12:19	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/24/21 12:19	1

Eurofins TestAmerica, Chicago

Client Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: Trip Blank

Lab Sample ID: 500-209778-2

Date Collected: 12/14/21 00:00

Matrix: Water

Date Received: 12/15/21 10:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/24/21 12:19	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/24/21 12:19	1
Styrene	<0.39		1.0	0.39	ug/L			12/24/21 12:19	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/24/21 12:19	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/24/21 12:19	1
Toluene	<0.15		0.50	0.15	ug/L			12/24/21 12:19	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/24/21 12:19	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/24/21 12:19	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/24/21 12:19	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/24/21 12:19	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/24/21 12:19	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/24/21 12:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		75 - 126		12/24/21 12:19	1
4-Bromofluorobenzene (Surr)	82		72 - 124		12/24/21 12:19	1
Dibromofluoromethane (Surr)	92		75 - 120		12/24/21 12:19	1
Toluene-d8 (Surr)	94		75 - 120		12/24/21 12:19	1

Definitions/Glossary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
D	Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

QC Association Summary

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

GC/MS VOA

Analysis Batch: 635372

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Total/NA	Ground Water	8260B	
500-209778-2	Trip Blank	Total/NA	Water	8260B	
MB 500-635372/6	Method Blank	Total/NA	Water	8260B	
LCS 500-635372/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 634185

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1 - DL	MW-4R	Total/NA	Ground Water	3510C	
500-209778-1	MW-4R	Total/NA	Ground Water	3510C	
MB 500-634185/1-A	Method Blank	Total/NA	Water	3510C	
LCS 500-634185/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 500-634185/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 634865

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 500-634185/1-A	Method Blank	Total/NA	Water	8270D	634185
LCS 500-634185/2-A	Lab Control Sample	Total/NA	Water	8270D	634185
LCS 500-634185/3-A	Lab Control Sample Dup	Total/NA	Water	8270D	634185

Analysis Batch: 635246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Total/NA	Ground Water	8270D	634185

Analysis Batch: 635872

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1 - DL	MW-4R	Total/NA	Ground Water	8270D	634185

Metals

Filtration Batch: 634526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Dissolved	Ground Water	FILTRATION	
MB 500-634526/1-B	Method Blank	Dissolved	Water	FILTRATION	
MB 500-634526/1-D	Method Blank	Dissolved	Water	FILTRATION	

Prep Batch: 634582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Dissolved	Ground Water	7470A	634526
MB 500-634526/1-B	Method Blank	Dissolved	Water	7470A	634526
MB 500-634582/12-A	Method Blank	Total/NA	Water	7470A	
LCS 500-634582/13-A	Lab Control Sample	Total/NA	Water	7470A	

Analysis Batch: 634792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Dissolved	Ground Water	7470A	634582
MB 500-634526/1-B	Method Blank	Dissolved	Water	7470A	634582
MB 500-634582/12-A	Method Blank	Total/NA	Water	7470A	634582
LCS 500-634582/13-A	Lab Control Sample	Total/NA	Water	7470A	634582

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QC Association Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

Metals

Prep Batch: 635936

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Dissolved	Ground Water	3005A	634526
MB 500-634526/1-D	Method Blank	Dissolved	Water	3005A	634526
MB 500-635936/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 500-635936/2-A	Lab Control Sample	Total Recoverable	Water	3005A	

Analysis Batch: 636088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
500-209778-1	MW-4R	Dissolved	Ground Water	6020A	635936
MB 500-634526/1-D	Method Blank	Dissolved	Water	6020A	635936
MB 500-635936/1-A	Method Blank	Total Recoverable	Water	6020A	635936
LCS 500-635936/2-A	Lab Control Sample	Total Recoverable	Water	6020A	635936

Surrogate Summary

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

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

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-209778-1	MW-4R	88	82	92	95

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (75-126)	BFB (72-124)	DBFM (75-120)	TOL (75-120)
500-209778-2	Trip Blank	88	82	92	94
LCS 500-635372/4	Lab Control Sample	87	81	94	98
MB 500-635372/6	Method Blank	90	82	91	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Ground Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-110)	TPHL (40-145)
500-209778-1	MW-4R	98	70	51	77	42	89
500-209778-1 - DL	MW-4R	0 D	0 D	0 D	0 D	0 D	0 D

Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TBP (40-145)	FBP (34-110)	2FP (27-110)	NBZ (36-120)	PHL (20-110)	TPHL (40-145)
LCS 500-634185/2-A	Lab Control Sample	120	88	86	90	74	107
LCSD 500-634185/3-A	Lab Control Sample Dup	94	65	61	68	52	87
MB 500-634185/1-A	Method Blank	85	63	63	64	49	102

Surrogate Legend

Eurofins TestAmerica, Chicago

Surrogate Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

PHL = Phenol-d5 (Surr)

TPHL = Terphenyl-d14 (Surr)

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

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

Lab Sample ID: MB 500-635372/6

Matrix: Water

Analysis Batch: 635372

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	<0.46		1.0	0.46	ug/L			12/24/21 11:24	1
1,1,1-Trichloroethane	<0.38		1.0	0.38	ug/L			12/24/21 11:24	1
1,1,2,2-Tetrachloroethane	<0.40		1.0	0.40	ug/L			12/24/21 11:24	1
1,1,2-Trichloroethane	<0.35		1.0	0.35	ug/L			12/24/21 11:24	1
1,1-Dichloroethane	<0.41		1.0	0.41	ug/L			12/24/21 11:24	1
1,1-Dichloroethene	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
1,1-Dichloropropene	<0.30		1.0	0.30	ug/L			12/24/21 11:24	1
1,2,3-Trichlorobenzene	<0.46		1.0	0.46	ug/L			12/24/21 11:24	1
1,2,3-Trichloropropane	<0.41		2.0	0.41	ug/L			12/24/21 11:24	1
1,2,4-Trichlorobenzene	<0.34		1.0	0.34	ug/L			12/24/21 11:24	1
1,2,4-Trimethylbenzene	<0.36		1.0	0.36	ug/L			12/24/21 11:24	1
1,2-Dibromo-3-Chloropropane	<2.0		5.0	2.0	ug/L			12/24/21 11:24	1
1,2-Dibromoethane	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
1,2-Dichlorobenzene	<0.33		1.0	0.33	ug/L			12/24/21 11:24	1
1,2-Dichloroethane	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
1,2-Dichloropropane	<0.43		1.0	0.43	ug/L			12/24/21 11:24	1
1,3,5-Trimethylbenzene	<0.25		1.0	0.25	ug/L			12/24/21 11:24	1
1,3-Dichlorobenzene	<0.40		1.0	0.40	ug/L			12/24/21 11:24	1
1,3-Dichloropropane	<0.36		1.0	0.36	ug/L			12/24/21 11:24	1
1,4-Dichlorobenzene	<0.36		1.0	0.36	ug/L			12/24/21 11:24	1
2,2-Dichloropropane	<0.44		1.0	0.44	ug/L			12/24/21 11:24	1
2-Chlorotoluene	<0.31		1.0	0.31	ug/L			12/24/21 11:24	1
4-Chlorotoluene	<0.35		1.0	0.35	ug/L			12/24/21 11:24	1
Benzene	<0.15		0.50	0.15	ug/L			12/24/21 11:24	1
Bromobenzene	<0.36		1.0	0.36	ug/L			12/24/21 11:24	1
Bromochloromethane	<0.43		1.0	0.43	ug/L			12/24/21 11:24	1
Bromodichloromethane	<0.37		1.0	0.37	ug/L			12/24/21 11:24	1
Bromoform	<0.48		1.0	0.48	ug/L			12/24/21 11:24	1
Bromomethane	<0.80		3.0	0.80	ug/L			12/24/21 11:24	1
Carbon tetrachloride	<0.38		1.0	0.38	ug/L			12/24/21 11:24	1
Chlorobenzene	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
Chloroethane	<0.51		1.0	0.51	ug/L			12/24/21 11:24	1
Chloroform	<0.37		2.0	0.37	ug/L			12/24/21 11:24	1
Chloromethane	<0.32		1.0	0.32	ug/L			12/24/21 11:24	1
cis-1,2-Dichloroethene	<0.41		1.0	0.41	ug/L			12/24/21 11:24	1
cis-1,3-Dichloropropene	<0.42		1.0	0.42	ug/L			12/24/21 11:24	1
Dibromochloromethane	<0.49		1.0	0.49	ug/L			12/24/21 11:24	1
Dibromomethane	<0.27		1.0	0.27	ug/L			12/24/21 11:24	1
Dichlorodifluoromethane	<0.67		3.0	0.67	ug/L			12/24/21 11:24	1
Ethylbenzene	<0.18		0.50	0.18	ug/L			12/24/21 11:24	1
Hexachlorobutadiene	<0.45		1.0	0.45	ug/L			12/24/21 11:24	1
Isopropyl ether	<0.28		1.0	0.28	ug/L			12/24/21 11:24	1
Isopropylbenzene	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
Methyl tert-butyl ether	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
Methylene Chloride	<1.6		5.0	1.6	ug/L			12/24/21 11:24	1
Naphthalene	<0.34		1.0	0.34	ug/L			12/24/21 11:24	1
n-Butylbenzene	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

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

Lab Sample ID: MB 500-635372/6

Matrix: Water

Analysis Batch: 635372

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
N-Propylbenzene	<0.41		1.0	0.41	ug/L			12/24/21 11:24	1
p-Isopropyltoluene	<0.36		1.0	0.36	ug/L			12/24/21 11:24	1
sec-Butylbenzene	<0.40		1.0	0.40	ug/L			12/24/21 11:24	1
Styrene	<0.39		1.0	0.39	ug/L			12/24/21 11:24	1
tert-Butylbenzene	<0.40		1.0	0.40	ug/L			12/24/21 11:24	1
Tetrachloroethene	<0.37		1.0	0.37	ug/L			12/24/21 11:24	1
Toluene	<0.15		0.50	0.15	ug/L			12/24/21 11:24	1
trans-1,2-Dichloroethene	<0.35		1.0	0.35	ug/L			12/24/21 11:24	1
trans-1,3-Dichloropropene	<0.36		1.0	0.36	ug/L			12/24/21 11:24	1
Trichloroethene	<0.16		0.50	0.16	ug/L			12/24/21 11:24	1
Trichlorofluoromethane	<0.43		1.0	0.43	ug/L			12/24/21 11:24	1
Vinyl chloride	<0.20		1.0	0.20	ug/L			12/24/21 11:24	1
Xylenes, Total	<0.22		1.0	0.22	ug/L			12/24/21 11:24	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	90		75 - 126		12/24/21 11:24	1
4-Bromofluorobenzene (Surr)	82		72 - 124		12/24/21 11:24	1
Dibromofluoromethane (Surr)	91		75 - 120		12/24/21 11:24	1
Toluene-d8 (Surr)	94		75 - 120		12/24/21 11:24	1

Lab Sample ID: LCS 500-635372/4

Matrix: Water

Analysis Batch: 635372

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	47.6		ug/L		95	70 - 125
1,1,2,2-Tetrachloroethane	50.0	38.2		ug/L		76	62 - 140
1,1,2-Trichloroethane	50.0	45.7		ug/L		91	71 - 130
1,1-Dichloroethane	50.0	47.4		ug/L		95	70 - 125
1,1-Dichloroethene	50.0	54.6		ug/L		109	67 - 122
1,1-Dichloropropene	50.0	48.2		ug/L		96	70 - 121
1,2,3-Trichlorobenzene	50.0	55.7		ug/L		111	51 - 145
1,2,3-Trichloropropane	50.0	40.1		ug/L		80	50 - 133
1,2,4-Trichlorobenzene	50.0	53.4		ug/L		107	57 - 137
1,2,4-Trimethylbenzene	50.0	49.3		ug/L		99	70 - 123
1,2-Dibromo-3-Chloropropane	50.0	32.9		ug/L		66	56 - 123
1,2-Dibromoethane	50.0	43.7		ug/L		87	70 - 125
1,2-Dichlorobenzene	50.0	46.6		ug/L		93	70 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	68 - 127
1,2-Dichloropropane	50.0	47.5		ug/L		95	67 - 130
1,3,5-Trimethylbenzene	50.0	49.9		ug/L		100	70 - 123
1,3-Dichlorobenzene	50.0	46.3		ug/L		93	70 - 125
1,3-Dichloropropane	50.0	43.9		ug/L		88	62 - 136
1,4-Dichlorobenzene	50.0	46.1		ug/L		92	70 - 120
2,2-Dichloropropane	50.0	37.2		ug/L		74	58 - 139
2-Chlorotoluene	50.0	45.6		ug/L		91	70 - 125

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

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

Lab Sample ID: LCS 500-635372/4
Matrix: Water
Analysis Batch: 635372

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	50.0	43.8		ug/L		88	68 - 124
Benzene	50.0	49.4		ug/L		99	70 - 120
Bromobenzene	50.0	40.7		ug/L		81	70 - 122
Bromochloromethane	50.0	53.6		ug/L		107	65 - 122
Bromodichloromethane	50.0	41.4		ug/L		83	69 - 120
Bromoform	50.0	35.9		ug/L		72	56 - 132
Bromomethane	50.0	61.7		ug/L		123	40 - 152
Carbon tetrachloride	50.0	46.6		ug/L		93	59 - 133
Chlorobenzene	50.0	50.0		ug/L		100	70 - 120
Chloroethane	50.0	62.6		ug/L		125	48 - 136
Chloroform	50.0	47.1		ug/L		94	70 - 120
Chloromethane	50.0	50.6		ug/L		101	56 - 152
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	70 - 125
cis-1,3-Dichloropropene	50.0	40.3		ug/L		81	64 - 127
Dibromochloromethane	50.0	40.7		ug/L		81	68 - 125
Dibromomethane	50.0	47.2		ug/L		94	70 - 120
Dichlorodifluoromethane	50.0	54.7		ug/L		109	40 - 159
Ethylbenzene	50.0	53.4		ug/L		107	70 - 123
Hexachlorobutadiene	50.0	59.2		ug/L		118	51 - 150
Isopropylbenzene	50.0	49.0		ug/L		98	70 - 126
Methyl tert-butyl ether	50.0	31.3		ug/L		63	55 - 123
Methylene Chloride	50.0	51.4		ug/L		103	69 - 125
Naphthalene	50.0	55.1		ug/L		110	53 - 144
n-Butylbenzene	50.0	53.9		ug/L		108	68 - 125
N-Propylbenzene	50.0	46.4		ug/L		93	69 - 127
p-Isopropyltoluene	50.0	56.2		ug/L		112	70 - 125
sec-Butylbenzene	50.0	53.1		ug/L		106	70 - 123
Styrene	50.0	49.8		ug/L		100	70 - 120
tert-Butylbenzene	50.0	53.6		ug/L		107	70 - 121
Tetrachloroethene	50.0	51.9		ug/L		104	70 - 128
Toluene	50.0	50.5		ug/L		101	70 - 125
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	70 - 125
trans-1,3-Dichloropropene	50.0	35.2		ug/L		70	62 - 128
Trichloroethene	50.0	53.1		ug/L		106	70 - 125
Trichlorofluoromethane	50.0	45.0		ug/L		90	55 - 128
Vinyl chloride	50.0	54.7		ug/L		109	64 - 126
Xylenes, Total	100	107		ug/L		107	70 - 125

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		75 - 126
4-Bromofluorobenzene (Surr)	81		72 - 124
Dibromofluoromethane (Surr)	94		75 - 120
Toluene-d8 (Surr)	98		75 - 120

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 500-634185/1-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634185

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	<0.19		1.6	0.19	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
1,2-Dichlorobenzene	<0.20		1.6	0.20	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
1,3-Dichlorobenzene	<0.17		1.6	0.17	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
1,4-Dichlorobenzene	<0.17		1.6	0.17	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
1-Methylnaphthalene	<0.24		1.6	0.24	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,2'-oxybis[1-chloropropane]	<0.30		1.6	0.30	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,4,5-Trichlorophenol	<2.1		8.0	2.1	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,4,6-Trichlorophenol	<0.57		4.0	0.57	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,4-Dichlorophenol	<2.1		8.0	2.1	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,4-Dimethylphenol	<1.4		8.0	1.4	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,4-Dinitrophenol	<6.9		16	6.9	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,4-Dinitrotoluene	<0.20		0.80	0.20	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2,6-Dinitrotoluene	<0.059		0.80	0.059	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2-Chloronaphthalene	<0.19		1.6	0.19	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2-Chlorophenol	<0.45		4.0	0.45	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2-Methylnaphthalene	<0.052		1.6	0.052	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2-Methylphenol	<0.24		1.6	0.24	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2-Nitroaniline	<1.0		4.0	1.0	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
2-Nitrophenol	<2.0		8.0	2.0	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
3 & 4 Methylphenol	<0.36		1.6	0.36	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
3,3'-Dichlorobenzidine	<1.4		4.0	1.4	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
3-Nitroaniline	<1.4		8.0	1.4	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4,6-Dinitro-2-methylphenol	<4.7		16	4.7	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4-Bromophenyl phenyl ether	<0.43		4.0	0.43	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4-Chloro-3-methylphenol	<1.8		8.0	1.8	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4-Chloroaniline	<1.6		8.0	1.6	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4-Chlorophenyl phenyl ether	<0.51		4.0	0.51	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4-Nitroaniline	<1.3		8.0	1.3	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
4-Nitrophenol	<5.9		16	5.9	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Acenaphthene	<0.25		0.80	0.25	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Acenaphthylene	<0.21		0.80	0.21	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Anthracene	<0.27		0.80	0.27	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzo[a]anthracene	<0.045		0.16	0.045	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzo[a]pyrene	<0.079		0.16	0.079	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzo[b]fluoranthene	<0.065		0.16	0.065	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzo[g,h,i]perylene	<0.30		0.80	0.30	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzo[k]fluoranthene	<0.051		0.16	0.051	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzoic acid	<4.6		16	4.6	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Benzyl alcohol	<4.8		16	4.8	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Bis(2-chloroethoxy)methane	<0.23		1.6	0.23	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Bis(2-chloroethyl)ether	<0.23		1.6	0.23	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Bis(2-ethylhexyl) phthalate	<1.4		8.0	1.4	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Butyl benzyl phthalate	<0.38		1.6	0.38	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Carbazole	<0.28		4.0	0.28	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Chrysene	<0.055		0.16	0.055	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Dibenz(a,h)anthracene	<0.041		0.24	0.041	ug/L	-	12/17/21 07:18	12/21/21 20:25	1
Dibenzofuran	<0.21		1.6	0.21	ug/L	-	12/17/21 07:18	12/21/21 20:25	1

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 500-634185/1-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634185

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Diethyl phthalate	<0.29		4.0	0.29	ug/L		12/17/21 07:18	12/21/21 20:25	1
Dimethyl phthalate	<0.25		4.0	0.25	ug/L		12/17/21 07:18	12/21/21 20:25	1
Di-n-butyl phthalate	<0.58		4.0	0.58	ug/L		12/17/21 07:18	12/21/21 20:25	1
Di-n-octyl phthalate	<0.84		8.0	0.84	ug/L		12/17/21 07:18	12/21/21 20:25	1
Fluoranthene	<0.36		0.80	0.36	ug/L		12/17/21 07:18	12/21/21 20:25	1
Fluorene	<0.20		0.80	0.20	ug/L		12/17/21 07:18	12/21/21 20:25	1
Hexachlorobenzene	<0.064		0.40	0.064	ug/L		12/17/21 07:18	12/21/21 20:25	1
Hexachlorobutadiene	<0.41		4.0	0.41	ug/L		12/17/21 07:18	12/21/21 20:25	1
Hexachlorocyclopentadiene	<5.1		16	5.1	ug/L		12/17/21 07:18	12/21/21 20:25	1
Hexachloroethane	<0.48		4.0	0.48	ug/L		12/17/21 07:18	12/21/21 20:25	1
Indeno[1,2,3-cd]pyrene	<0.060		0.16	0.060	ug/L		12/17/21 07:18	12/21/21 20:25	1
Isophorone	<0.30		1.6	0.30	ug/L		12/17/21 07:18	12/21/21 20:25	1
Naphthalene	<0.25		0.80	0.25	ug/L		12/17/21 07:18	12/21/21 20:25	1
Nitrobenzene	<0.36		0.80	0.36	ug/L		12/17/21 07:18	12/21/21 20:25	1
N-Nitrosodi-n-propylamine	<0.12		0.40	0.12	ug/L		12/17/21 07:18	12/21/21 20:25	1
N-Nitrosodiphenylamine	<0.30		1.6	0.30	ug/L		12/17/21 07:18	12/21/21 20:25	1
Pentachlorophenol	<3.2		16	3.2	ug/L		12/17/21 07:18	12/21/21 20:25	1
Phenanthrene	<0.24		0.80	0.24	ug/L		12/17/21 07:18	12/21/21 20:25	1
Phenol	<0.54		4.0	0.54	ug/L		12/17/21 07:18	12/21/21 20:25	1
Pyrene	<0.34		0.80	0.34	ug/L		12/17/21 07:18	12/21/21 20:25	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2,4,6-Tribromophenol (Surr)	85		40 - 145	12/17/21 07:18	12/21/21 20:25	1
2-Fluorobiphenyl (Surr)	63		34 - 110	12/17/21 07:18	12/21/21 20:25	1
2-Fluorophenol (Surr)	63		27 - 110	12/17/21 07:18	12/21/21 20:25	1
Nitrobenzene-d5 (Surr)	64		36 - 120	12/17/21 07:18	12/21/21 20:25	1
Phenol-d5 (Surr)	49		20 - 110	12/17/21 07:18	12/21/21 20:25	1
Terphenyl-d14 (Surr)	102		40 - 145	12/17/21 07:18	12/21/21 20:25	1

Lab Sample ID: LCS 500-634185/2-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
1,2-Dichlorobenzene	32.0	19.3		ug/L		60	26 - 110
1,3-Dichlorobenzene	32.0	18.3		ug/L		57	22 - 110
1,4-Dichlorobenzene	32.0	18.8		ug/L		59	23 - 110
1-Methylnaphthalene	32.0	23.9		ug/L		75	38 - 110
2,2'-oxybis[1-chloropropane]	32.0	30.4		ug/L		95	38 - 140
2,4,5-Trichlorophenol	32.0	37.6		ug/L		117	63 - 124
2,4,6-Trichlorophenol	32.0	36.7		ug/L		115	62 - 121
2,4-Dichlorophenol	32.0	31.0		ug/L		97	58 - 120
2,4-Dimethylphenol	32.0	28.8		ug/L		90	51 - 115
2,4-Dinitrophenol	64.0	65.5		ug/L		102	37 - 130
2,4-Dinitrotoluene	32.0	37.1		ug/L		116	63 - 129
2,6-Dinitrotoluene	32.0	34.8		ug/L		109	63 - 129

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-634185/2-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634185
%Rec.

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
2-Chloronaphthalene	32.0	25.8		ug/L		81	39 - 110
2-Chlorophenol	32.0	31.7		ug/L		99	59 - 110
2-Methylnaphthalene	32.0	23.8		ug/L		75	34 - 110
2-Methylphenol	32.0	29.5		ug/L		92	53 - 115
2-Nitroaniline	32.0	33.5		ug/L		105	59 - 138
2-Nitrophenol	32.0	30.0		ug/L		94	59 - 115
3 & 4 Methylphenol	32.0	31.6		ug/L		99	50 - 116
3,3'-Dichlorobenzidine	32.0	37.4		ug/L		117	60 - 132
3-Nitroaniline	32.0	33.8		ug/L		106	47 - 123
4,6-Dinitro-2-methylphenol	64.0	68.4		ug/L		107	50 - 129
4-Bromophenyl phenyl ether	32.0	30.9		ug/L		97	58 - 120
4-Chloro-3-methylphenol	32.0	32.8		ug/L		102	64 - 128
4-Chloroaniline	32.0	50.8	*+	ug/L		159	35 - 128
4-Chlorophenyl phenyl ether	32.0	28.6		ug/L		89	48 - 116
4-Nitroaniline	32.0	35.7	*+	ug/L		112	35 - 110
4-Nitrophenol	64.0	43.7		ug/L		68	20 - 110
Acenaphthene	32.0	27.9		ug/L		87	46 - 110
Acenaphthylene	32.0	30.6		ug/L		96	47 - 113
Anthracene	32.0	33.0		ug/L		103	67 - 118
Benzo[a]anthracene	32.0	34.2		ug/L		107	70 - 126
Benzo[a]pyrene	32.0	37.0		ug/L		116	70 - 135
Benzo[b]fluoranthene	32.0	33.2		ug/L		104	69 - 136
Benzo[g,h,i]perylene	32.0	35.9		ug/L		112	70 - 135
Benzo[k]fluoranthene	32.0	37.5		ug/L		117	70 - 133
Benzoic acid	64.0	47.1		ug/L		74	10 - 112
Benzyl alcohol	32.0	32.4		ug/L		101	46 - 132
Bis(2-chloroethoxy)methane	32.0	30.2		ug/L		95	59 - 118
Bis(2-chloroethyl)ether	32.0	28.2		ug/L		88	54 - 112
Bis(2-ethylhexyl) phthalate	32.0	38.8		ug/L		121	69 - 136
Butyl benzyl phthalate	32.0	36.6		ug/L		114	68 - 135
Carbazole	32.0	34.4		ug/L		107	61 - 145
Chrysene	32.0	34.8		ug/L		109	68 - 129
Dibenz(a,h)anthracene	32.0	35.4		ug/L		111	70 - 134
Dibenzofuran	32.0	27.3		ug/L		85	51 - 110
Diethyl phthalate	32.0	32.8		ug/L		102	62 - 123
Dimethyl phthalate	32.0	32.0		ug/L		100	63 - 122
Di-n-butyl phthalate	32.0	36.1		ug/L		113	69 - 129
Di-n-octyl phthalate	32.0	40.3		ug/L		126	68 - 137
Fluoranthene	32.0	37.6		ug/L		117	68 - 126
Fluorene	32.0	29.9		ug/L		94	53 - 120
Hexachlorobenzene	32.0	32.9		ug/L		103	61 - 126
Hexachlorobutadiene	32.0	18.4		ug/L		58	20 - 100
Hexachlorocyclopentadiene	32.0	20.4		ug/L		64	10 - 105
Hexachloroethane	32.0	18.1		ug/L		57	20 - 100
Indeno[1,2,3-cd]pyrene	32.0	35.4		ug/L		111	65 - 133
Isophorone	32.0	29.1		ug/L		91	54 - 127
Naphthalene	32.0	23.3		ug/L		73	36 - 110
Nitrobenzene	32.0	29.2		ug/L		91	54 - 121

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QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 500-634185/2-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634185

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
N-Nitrosodi-n-propylamine	32.0	33.5		ug/L		105	47 - 131
N-Nitrosodiphenylamine	32.0	32.0		ug/L		100	66 - 120
Pentachlorophenol	64.0	66.8		ug/L		104	42 - 148
Phenanthrene	32.0	33.6		ug/L		105	65 - 120
Phenol	32.0	21.5		ug/L		67	33 - 100
Pyrene	32.0	32.7		ug/L		102	70 - 126

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	120		40 - 145
2-Fluorobiphenyl (Surr)	88		34 - 110
2-Fluorophenol (Surr)	86		27 - 110
Nitrobenzene-d5 (Surr)	90		36 - 120
Phenol-d5 (Surr)	74		20 - 110
Terphenyl-d14 (Surr)	107		40 - 145

Lab Sample ID: LCSD 500-634185/3-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 634185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	32.0	14.8	*1	ug/L		46	26 - 110	23	20
1,2-Dichlorobenzene	32.0	15.3	*1	ug/L		48	26 - 110	23	20
1,3-Dichlorobenzene	32.0	15.2		ug/L		47	22 - 110	19	20
1,4-Dichlorobenzene	32.0	15.1	*1	ug/L		47	23 - 110	22	20
1-Methylnaphthalene	32.0	17.7	*1	ug/L		55	38 - 110	29	20
2,2'-oxybis[1-chloropropane]	32.0	22.1	*1	ug/L		69	38 - 140	32	20
2,4,5-Trichlorophenol	32.0	29.5	*1	ug/L		92	63 - 124	24	20
2,4,6-Trichlorophenol	32.0	28.6	*1	ug/L		89	62 - 121	25	20
2,4-Dichlorophenol	32.0	23.8	*1	ug/L		74	58 - 120	27	20
2,4-Dimethylphenol	32.0	22.7	*1	ug/L		71	51 - 115	24	20
2,4-Dinitrophenol	64.0	51.8	*1	ug/L		81	37 - 130	23	20
2,4-Dinitrotoluene	32.0	29.3	*1	ug/L		92	63 - 129	23	20
2,6-Dinitrotoluene	32.0	28.1	*1	ug/L		88	63 - 129	21	20
2-Chloronaphthalene	32.0	19.8	*1	ug/L		62	39 - 110	26	20
2-Chlorophenol	32.0	23.2	*1	ug/L		72	59 - 110	31	20
2-Methylnaphthalene	32.0	18.0	*1	ug/L		56	34 - 110	28	20
2-Methylphenol	32.0	20.9	*1	ug/L		65	53 - 115	34	20
2-Nitroaniline	32.0	26.4	*1	ug/L		83	59 - 138	24	20
2-Nitrophenol	32.0	23.2	*1	ug/L		72	59 - 115	26	20
3 & 4 Methylphenol	32.0	23.8	*1	ug/L		74	50 - 116	28	20
3,3'-Dichlorobenzidine	32.0	30.2	*1	ug/L		94	60 - 132	22	20
3-Nitroaniline	32.0	26.0	*1	ug/L		81	47 - 123	26	20
4,6-Dinitro-2-methylphenol	64.0	55.6	*1	ug/L		87	50 - 129	21	20
4-Bromophenyl phenyl ether	32.0	25.0	*1	ug/L		78	58 - 120	21	20
4-Chloro-3-methylphenol	32.0	26.4	*1	ug/L		82	64 - 128	22	20
4-Chloroaniline	32.0	37.8	*1	ug/L		118	35 - 128	29	20
4-Chlorophenyl phenyl ether	32.0	22.3	*1	ug/L		70	48 - 116	24	20

Eurofins TestAmerica, Chicago

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-634185/3-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 634185

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Nitroaniline	32.0	29.0	*1	ug/L		91	35 - 110	21	20
4-Nitrophenol	64.0	34.0	*1	ug/L		53	20 - 110	25	20
Acenaphthene	32.0	21.6	*1	ug/L		67	46 - 110	26	20
Acenaphthylene	32.0	22.8	*1	ug/L		71	47 - 113	29	20
Anthracene	32.0	27.1		ug/L		85	67 - 118	20	20
Benzo[a]anthracene	32.0	28.1		ug/L		88	70 - 126	19	20
Benzo[a]pyrene	32.0	31.7		ug/L		99	70 - 135	15	20
Benzo[b]fluoranthene	32.0	27.9		ug/L		87	69 - 136	17	20
Benzo[g,h,i]perylene	32.0	29.6		ug/L		92	70 - 135	19	20
Benzo[k]fluoranthene	32.0	30.5		ug/L		95	70 - 133	20	20
Benzoic acid	64.0	36.5	*1	ug/L		57	10 - 112	25	20
Benzyl alcohol	32.0	23.9	*1	ug/L		75	46 - 132	30	20
Bis(2-chloroethoxy)methane	32.0	22.7	*1	ug/L		71	59 - 118	28	20
Bis(2-chloroethyl)ether	32.0	21.1	*1	ug/L		66	54 - 112	29	20
Bis(2-ethylhexyl) phthalate	32.0	31.9		ug/L		100	69 - 136	19	20
Butyl benzyl phthalate	32.0	29.9		ug/L		93	68 - 135	20	20
Carbazole	32.0	28.4		ug/L		89	61 - 145	19	20
Chrysene	32.0	28.9		ug/L		90	68 - 129	19	20
Dibenz(a,h)anthracene	32.0	29.3		ug/L		91	70 - 134	19	20
Dibenzofuran	32.0	21.0	*1	ug/L		66	51 - 110	26	20
Diethyl phthalate	32.0	26.3	*1	ug/L		82	62 - 123	22	20
Dimethyl phthalate	32.0	25.6	*1	ug/L		80	63 - 122	22	20
Di-n-butyl phthalate	32.0	28.5	*1	ug/L		89	69 - 129	23	20
Di-n-octyl phthalate	32.0	33.8		ug/L		106	68 - 137	18	20
Fluoranthene	32.0	30.8		ug/L		96	68 - 126	20	20
Fluorene	32.0	23.8	*1	ug/L		74	53 - 120	23	20
Hexachlorobenzene	32.0	26.9		ug/L		84	61 - 126	20	20
Hexachlorobutadiene	32.0	14.9	*1	ug/L		47	20 - 100	21	20
Hexachlorocyclopentadiene	32.0	16.2	*1	ug/L		51	10 - 105	23	20
Hexachloroethane	32.0	14.8		ug/L		46	20 - 100	20	20
Indeno[1,2,3-cd]pyrene	32.0	25.8	*1	ug/L		81	65 - 133	31	20
Isophorone	32.0	22.8	*1	ug/L		71	54 - 127	24	20
Naphthalene	32.0	17.8	*1	ug/L		55	36 - 110	27	20
Nitrobenzene	32.0	21.3	*1	ug/L		67	54 - 121	31	20
N-Nitrosodi-n-propylamine	32.0	25.0	*1	ug/L		78	47 - 131	29	20
N-Nitrosodiphenylamine	32.0	26.2		ug/L		82	66 - 120	20	20
Pentachlorophenol	64.0	55.8		ug/L		87	42 - 148	18	20
Phenanthrene	32.0	27.2	*1	ug/L		85	65 - 120	21	20
Phenol	32.0	14.7	*1	ug/L		46	33 - 100	38	20
Pyrene	32.0	26.7		ug/L		83	70 - 126	20	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
2,4,6-Tribromophenol (Surr)	94		40 - 145
2-Fluorobiphenyl (Surr)	65		34 - 110
2-Fluorophenol (Surr)	61		27 - 110
Nitrobenzene-d5 (Surr)	68		36 - 120
Phenol-d5 (Surr)	52		20 - 110

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 8270D - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 500-634185/3-A
Matrix: Water
Analysis Batch: 634865

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 634185

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
Terphenyl-d14 (Surr)	87		40 - 145

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 500-635936/1-A
Matrix: Water
Analysis Batch: 636088

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 635936

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.23		1.0	0.23	ug/L		12/29/21 10:14	12/29/21 18:49	1
Barium	<0.73		2.5	0.73	ug/L		12/29/21 10:14	12/29/21 18:49	1
Cadmium	<0.17		0.50	0.17	ug/L		12/29/21 10:14	12/29/21 18:49	1
Chromium	<1.1		5.0	1.1	ug/L		12/29/21 10:14	12/29/21 18:49	1
Lead	<0.19		0.50	0.19	ug/L		12/29/21 10:14	12/29/21 18:49	1
Selenium	<0.98		2.5	0.98	ug/L		12/29/21 10:14	12/29/21 18:49	1
Silver	<0.12		0.50	0.12	ug/L		12/29/21 10:14	12/29/21 18:49	1

Lab Sample ID: LCS 500-635936/2-A
Matrix: Water
Analysis Batch: 636088

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 635936

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Arsenic	100	99.8		ug/L		100	80 - 120
Barium	500	528		ug/L		106	80 - 120
Cadmium	50.0	51.1		ug/L		102	80 - 120
Chromium	200	209		ug/L		104	80 - 120
Lead	100	105		ug/L		105	80 - 120
Selenium	100	99.9		ug/L		100	80 - 120
Silver	50.0	51.6		ug/L		103	80 - 120

Lab Sample ID: MB 500-634526/1-D
Matrix: Water
Analysis Batch: 636088

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 635936

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	<0.23		1.0	0.23	ug/L		12/29/21 10:14	12/29/21 20:28	1
Barium	7.85		2.5	0.73	ug/L		12/29/21 10:14	12/29/21 20:28	1
Cadmium	<0.17		0.50	0.17	ug/L		12/29/21 10:14	12/29/21 20:28	1
Chromium	<1.1		5.0	1.1	ug/L		12/29/21 10:14	12/29/21 20:28	1
Lead	21.3		0.50	0.19	ug/L		12/29/21 10:14	12/29/21 20:28	1
Selenium	<0.98		2.5	0.98	ug/L		12/29/21 10:14	12/29/21 20:28	1
Silver	<0.12		0.50	0.12	ug/L		12/29/21 10:14	12/29/21 20:28	1

QC Sample Results

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 500-634582/12-A
Matrix: Water
Analysis Batch: 634792

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 634582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		12/20/21 10:50	12/21/21 09:35	1

Lab Sample ID: LCS 500-634582/13-A
Matrix: Water
Analysis Batch: 634792

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 634582

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Mercury	2.00	1.95		ug/L		98	80 - 120

Lab Sample ID: MB 500-634526/1-B
Matrix: Water
Analysis Batch: 634792

Client Sample ID: Method Blank
Prep Type: Dissolved
Prep Batch: 634582

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	<0.098		0.20	0.098	ug/L		12/20/21 10:50	12/21/21 09:43	1

Lab Chronicle

Client: K. Singh & Associates, Inc
 Project/Site: Community Within the Corridor East Block -
 40449

Job ID: 500-209778-1

Client Sample ID: MW-4R

Date Collected: 12/14/21 11:45

Date Received: 12/15/21 10:40

Lab Sample ID: 500-209778-1

Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	635372	12/24/21 13:41	PMF	TAL CHI
Total/NA	Prep	3510C	DL		634185	12/17/21 07:18	ALW	TAL CHI
Total/NA	Analysis	8270D	DL	50	635872	12/29/21 19:52	SS	TAL CHI
Total/NA	Prep	3510C			634185	12/17/21 07:18	ALW	TAL CHI
Total/NA	Analysis	8270D		1	635246	12/23/21 18:56	SS	TAL CHI
Dissolved	Filtration	FILTRATION			634526	12/20/21 09:01	MJG	TAL CHI
Dissolved	Prep	3005A			635936	12/29/21 10:14	BDE	TAL CHI
Dissolved	Analysis	6020A		1	636088	12/29/21 20:31	FXG	TAL CHI
Dissolved	Filtration	FILTRATION			634526	12/20/21 09:01	MJG	TAL CHI
Dissolved	Prep	7470A			634582	12/20/21 10:50	MJG	TAL CHI
Dissolved	Analysis	7470A		1	634792	12/21/21 09:48	MJG	TAL CHI

Client Sample ID: Trip Blank

Date Collected: 12/14/21 00:00

Date Received: 12/15/21 10:40

Lab Sample ID: 500-209778-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	635372	12/24/21 12:19	PMF	TAL CHI

Laboratory References:

TAL CHI = Eurofins TestAmerica, Chicago, 2417 Bond Street, University Park, IL 60484, TEL (708)534-5200

Accreditation/Certification Summary

Client: K. Singh & Associates, Inc
Project/Site: Community Within the Corridor East Block -
40449

Job ID: 500-209778-1

Laboratory: Eurofins TestAmerica, Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Wisconsin	State	999580010	08-31-22

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

Login Sample Receipt Checklist

Client: K. Singh & Associates, Inc

Job Number: 500-209778-1

Login Number: 209778

List Source: Eurofins TestAmerica, Chicago

List Number: 1

Creator: Scott, Sherri L

Question	Answer	Comment
Radioactivity wasn't checked or is < /= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	1.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

